

FIG. 1

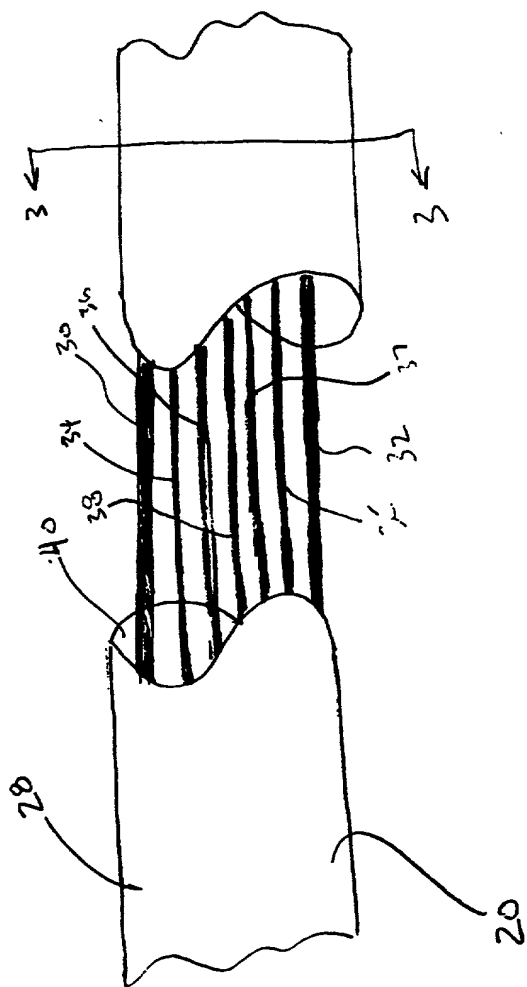


FIG. 2

4436934 4436934

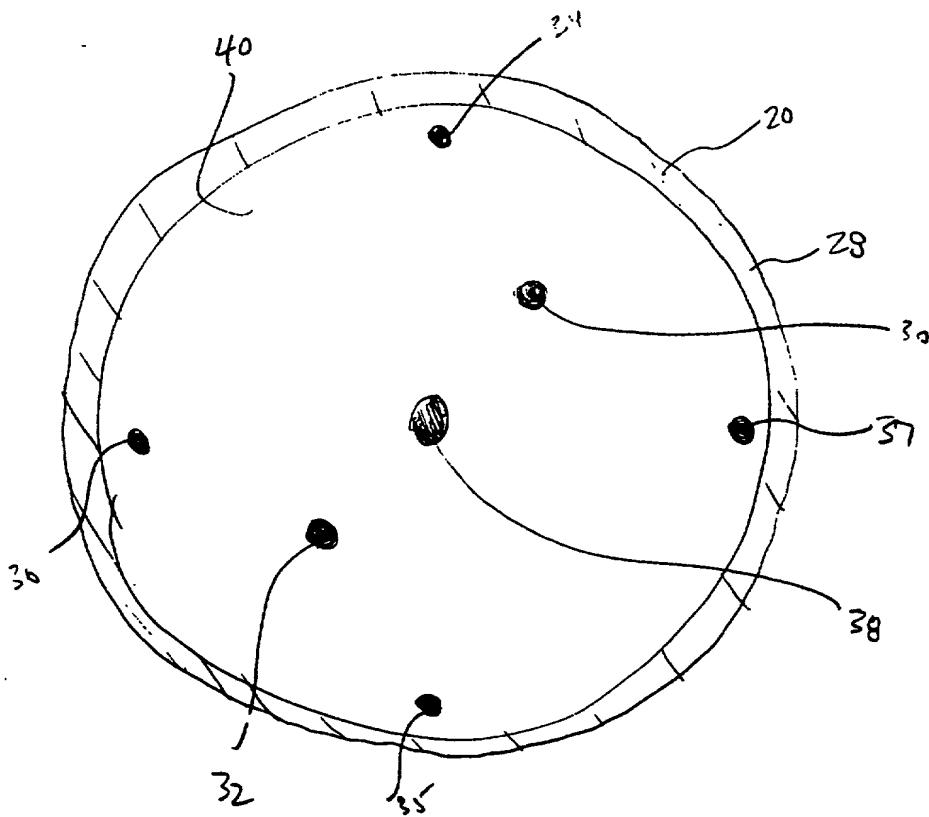
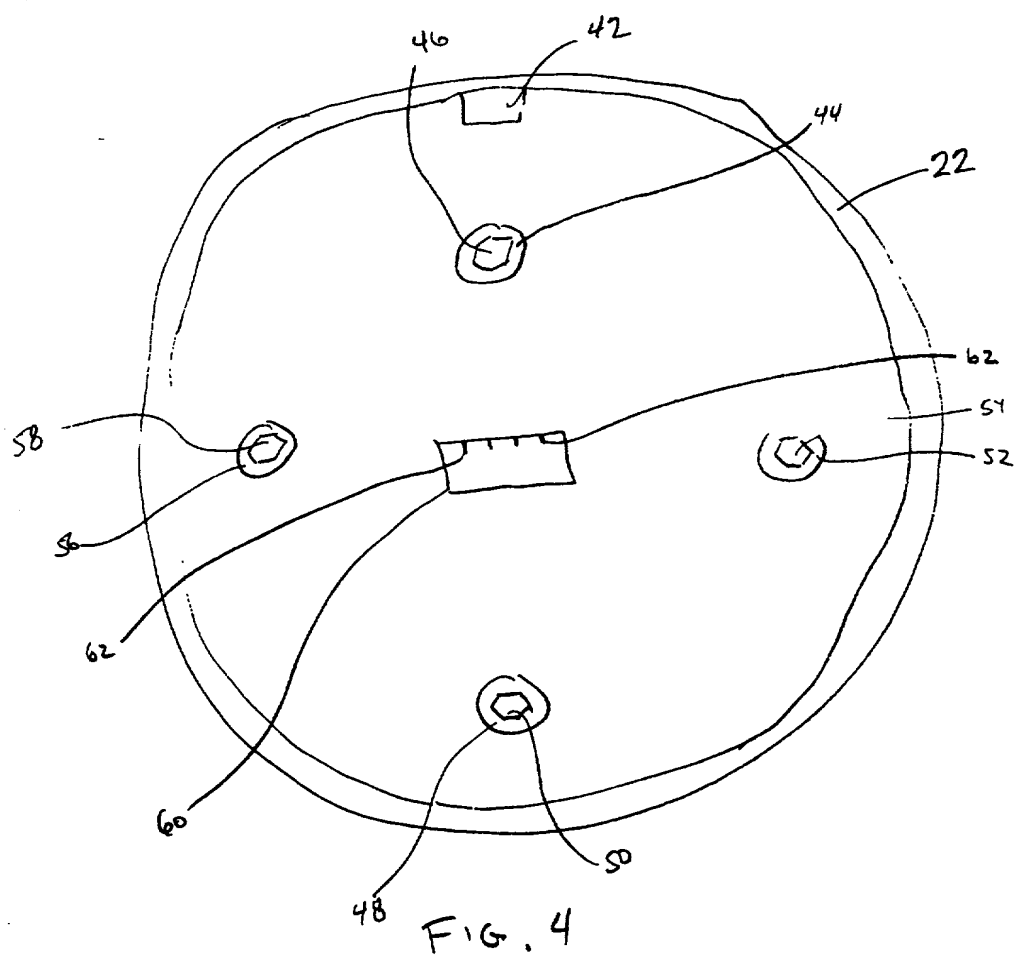


FIG. 3

1099534.01500



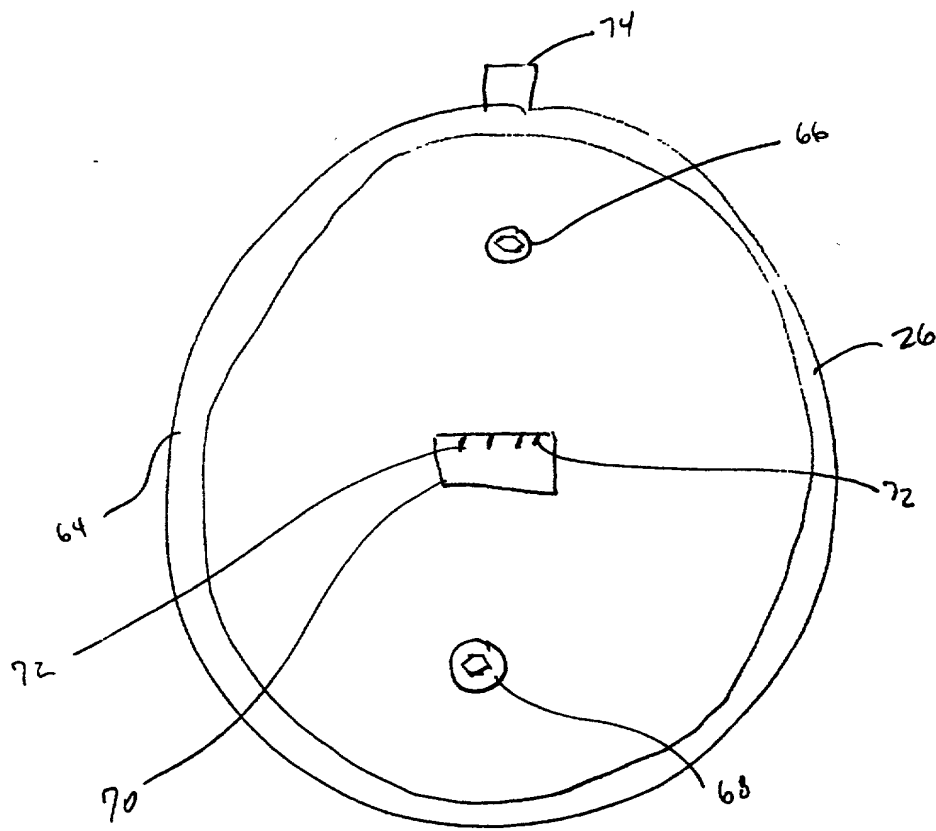


FIG. 5

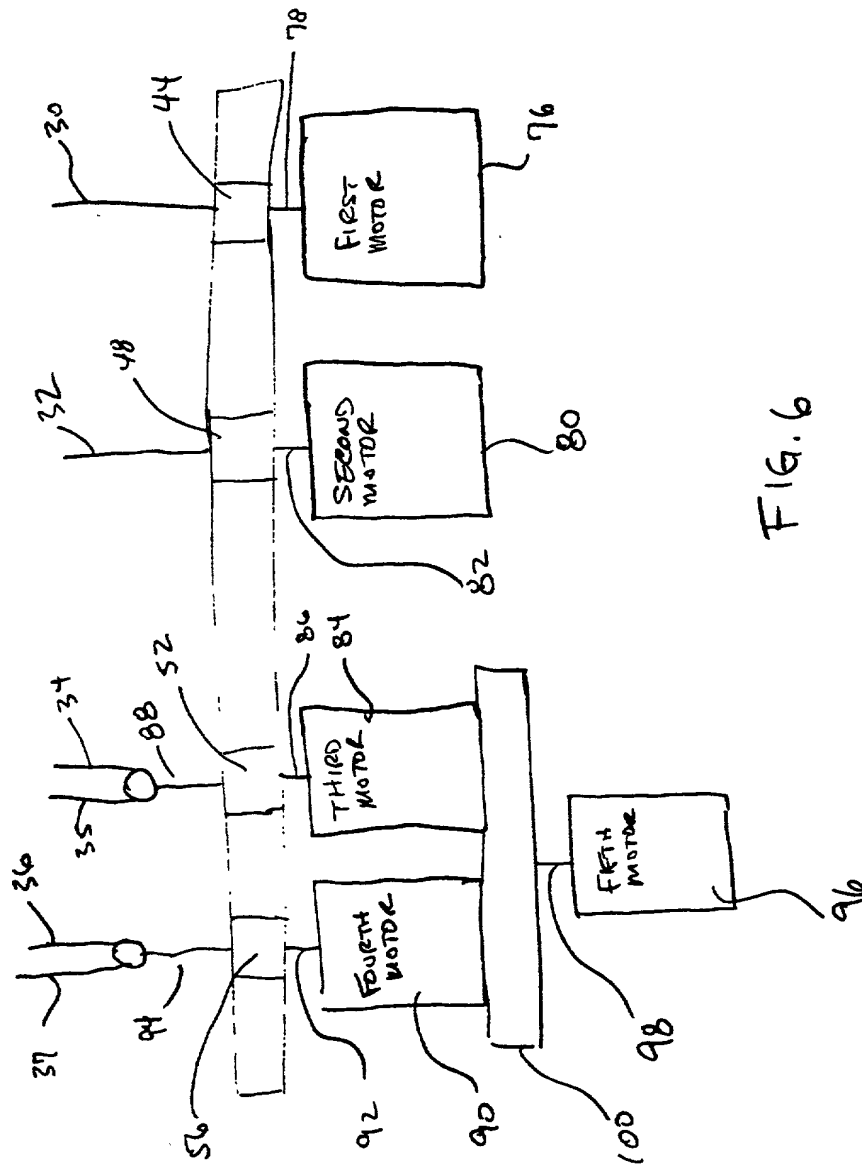
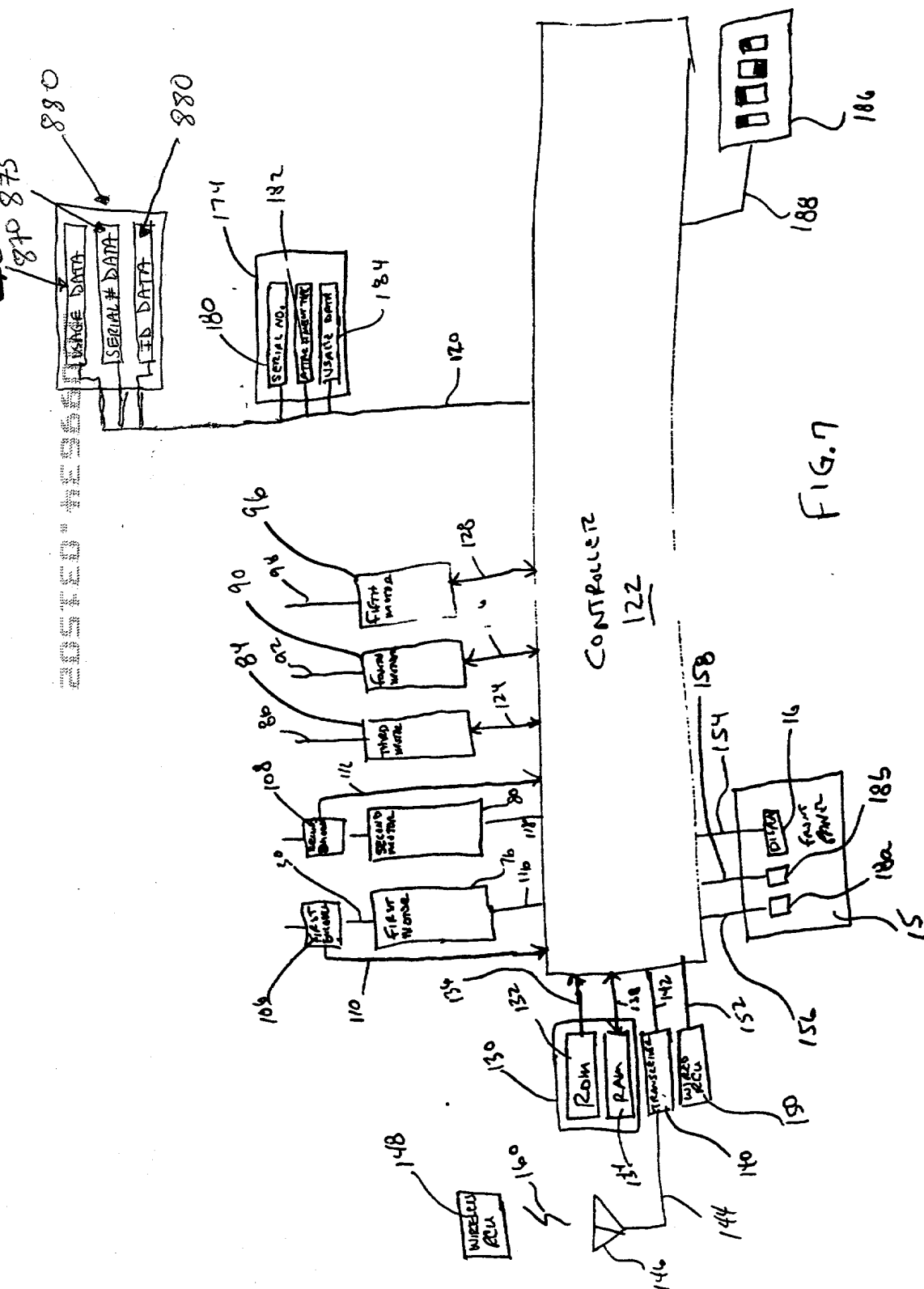
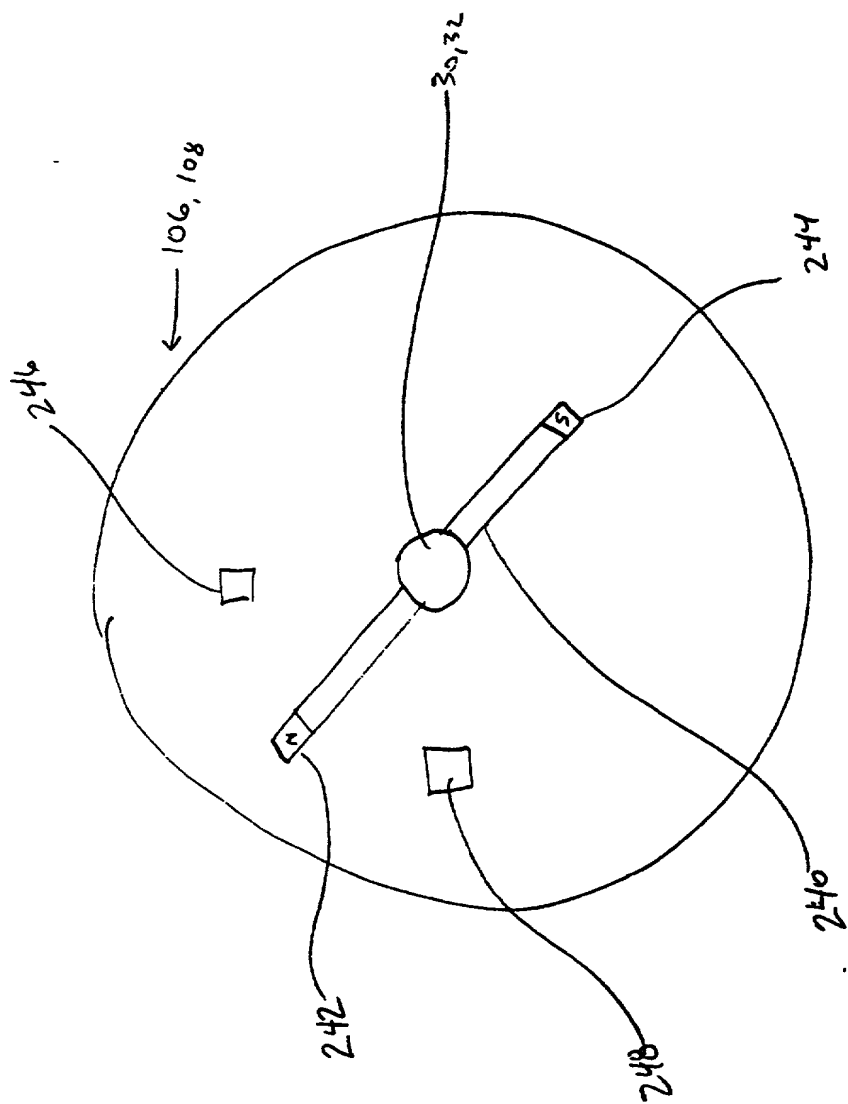


Fig. 6

578875





File 2

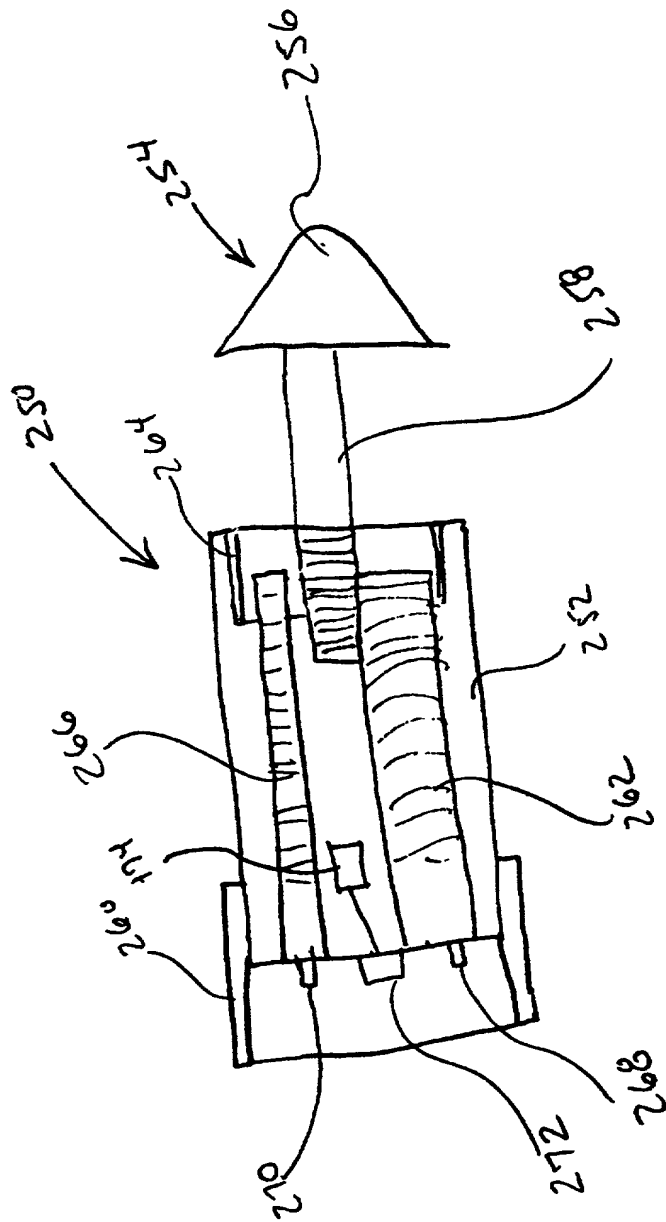


Fig. 9A

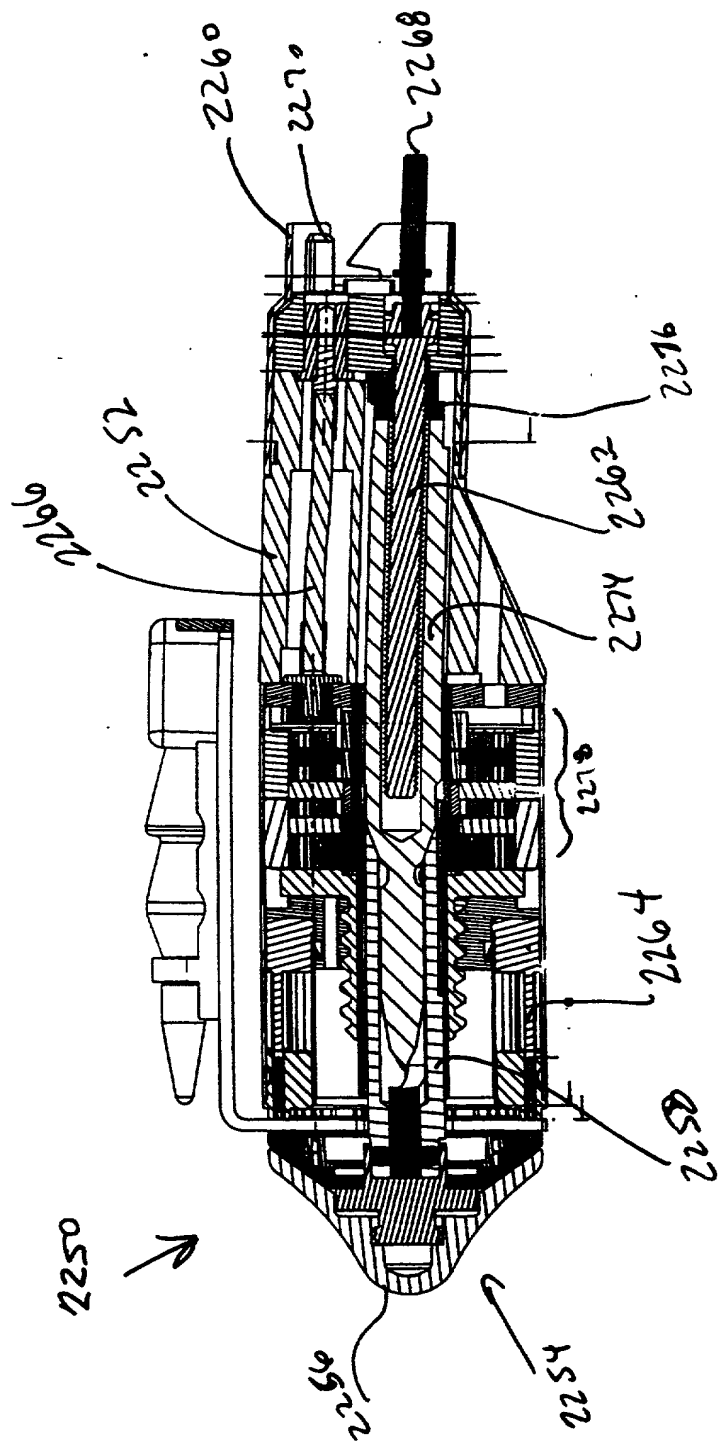


Figure 9B

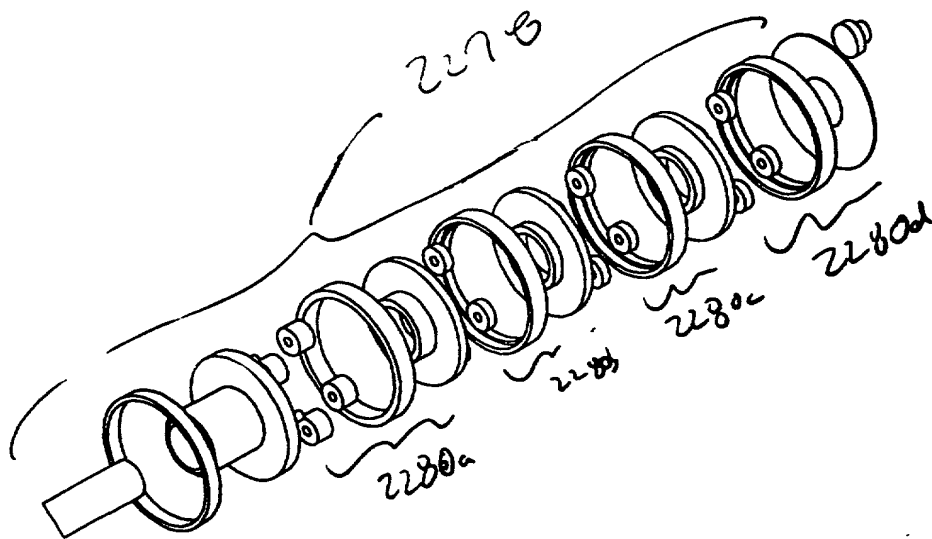


FIG. 9C

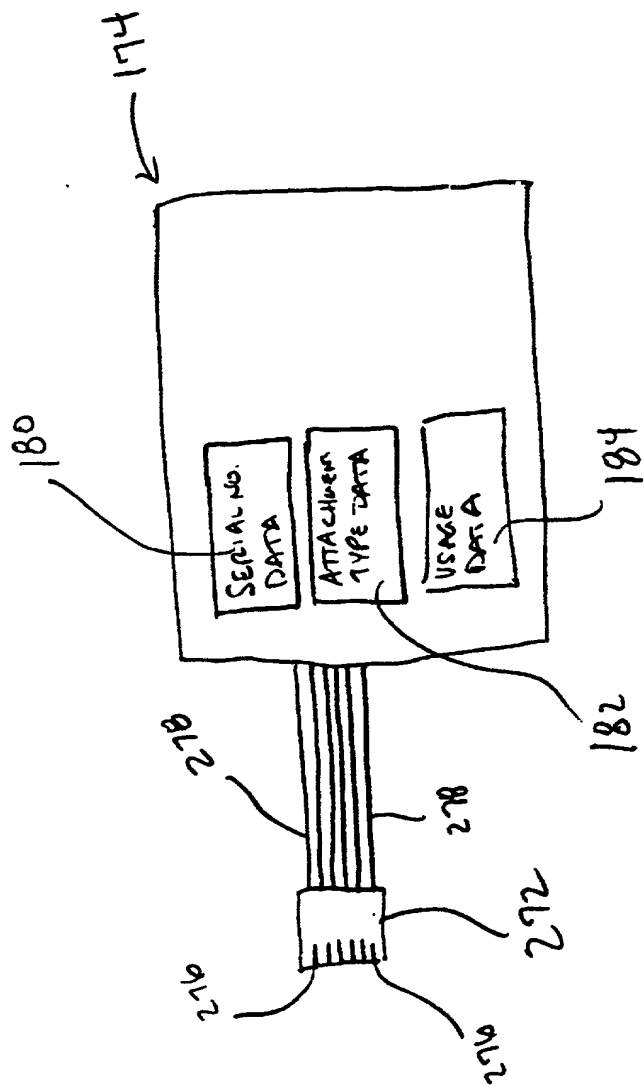
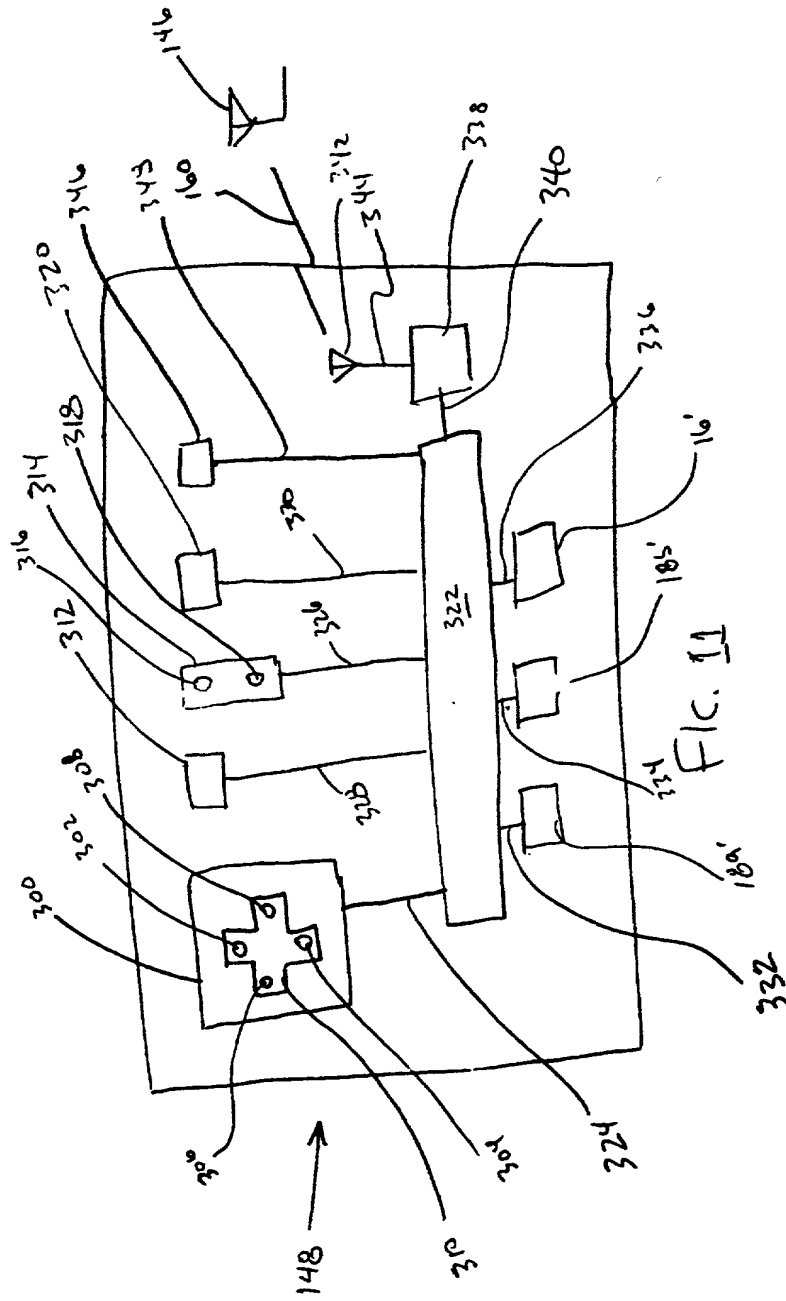


FIG. 10



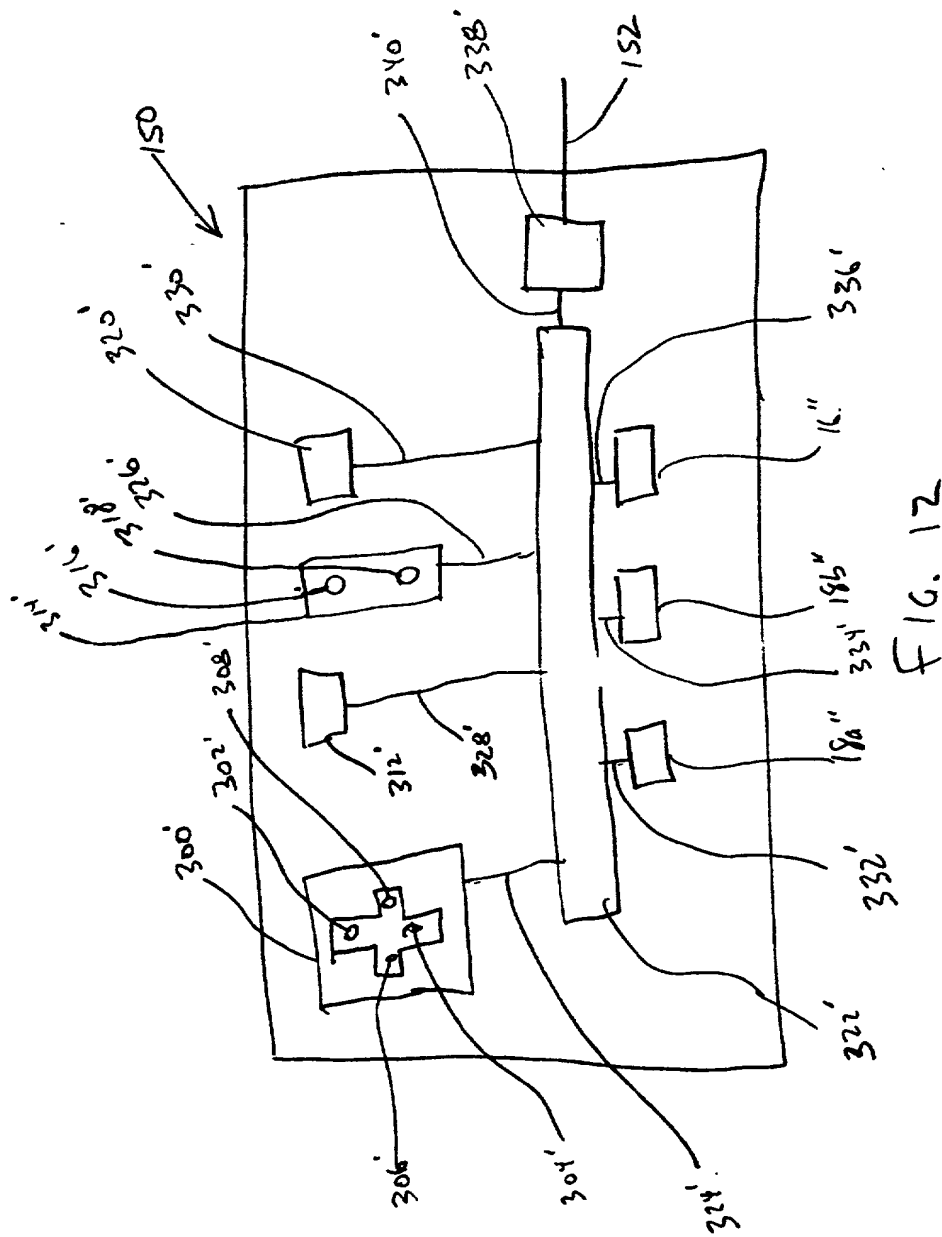


FIG. 12

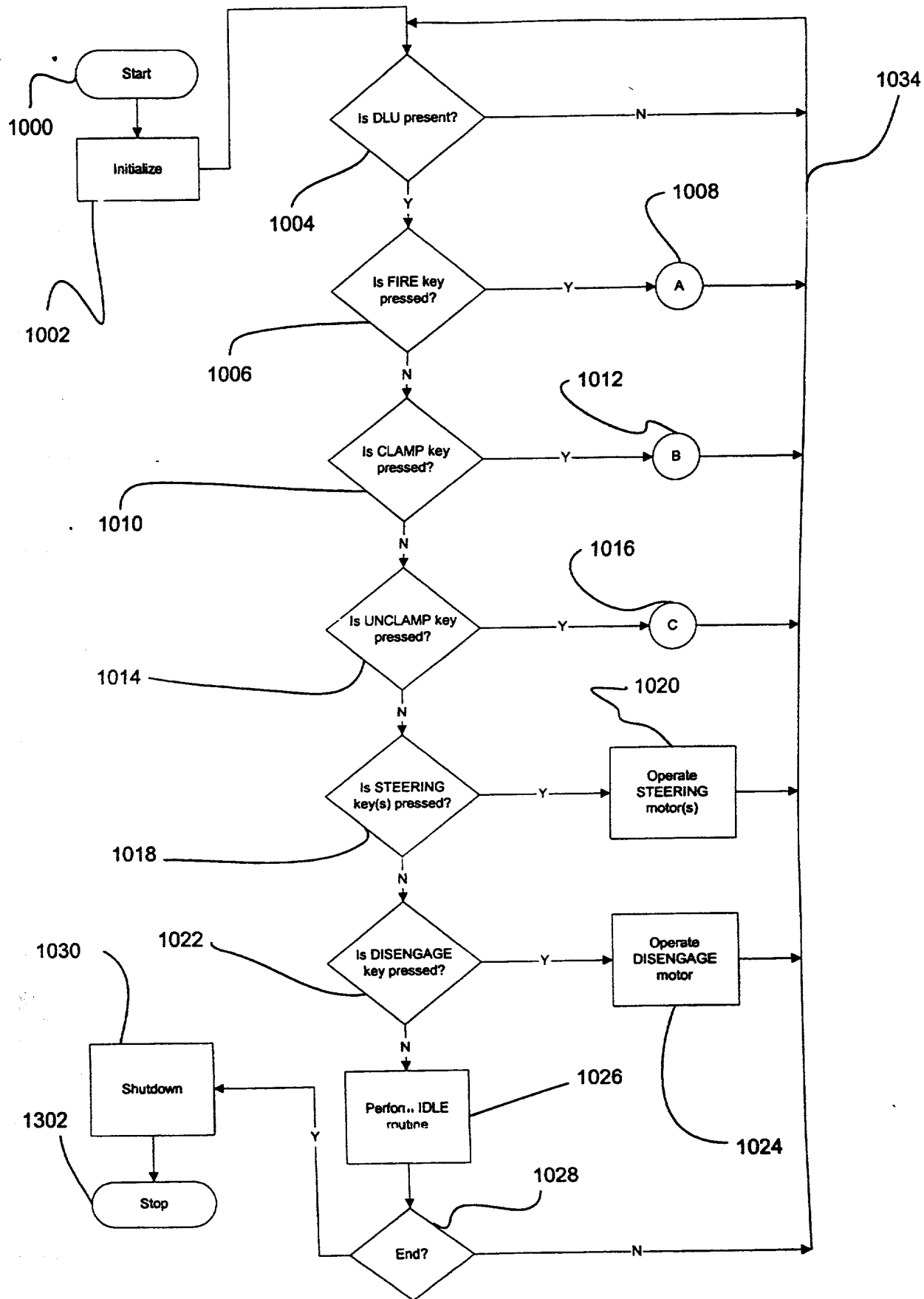


Figure 13

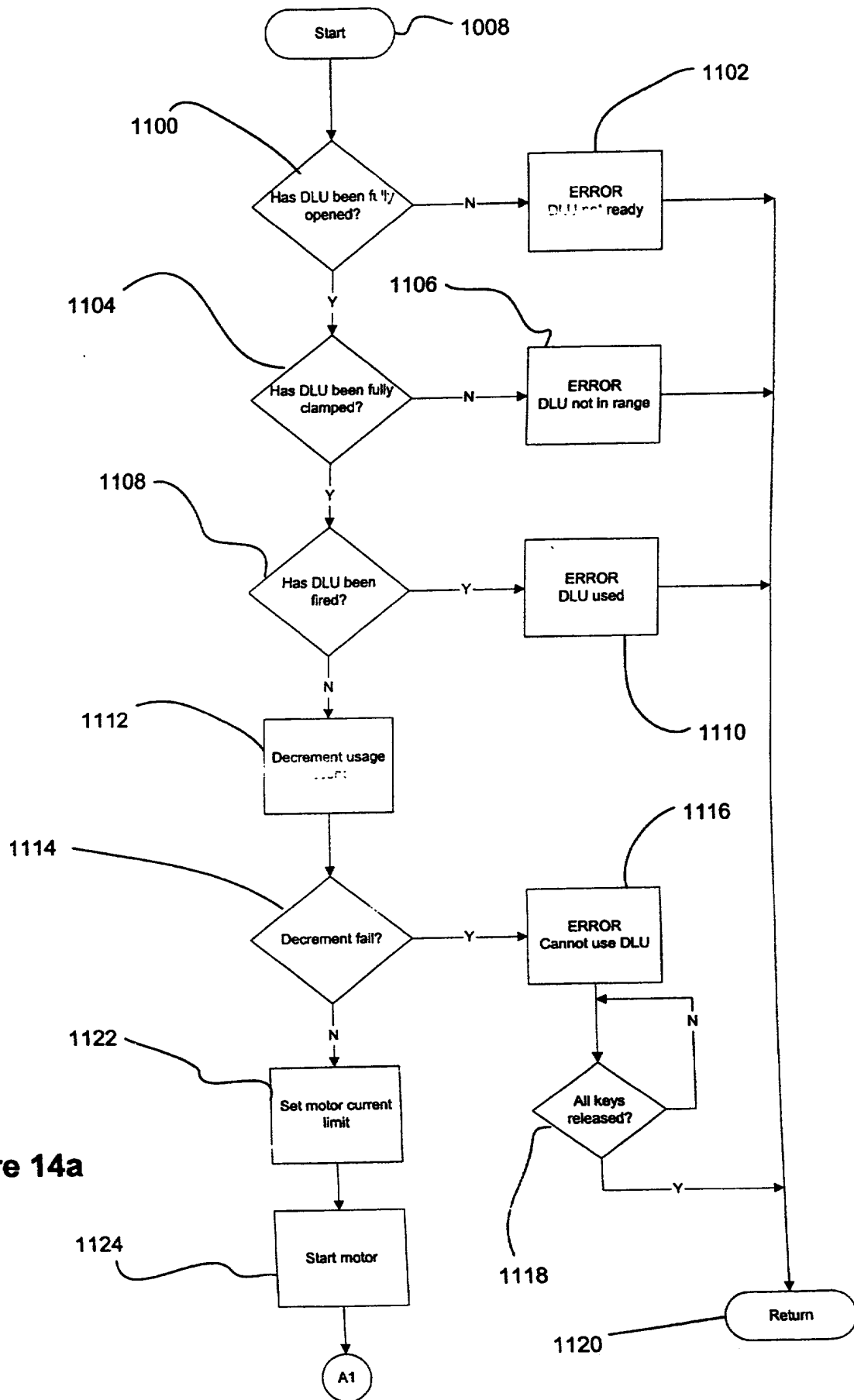


Figure 14a

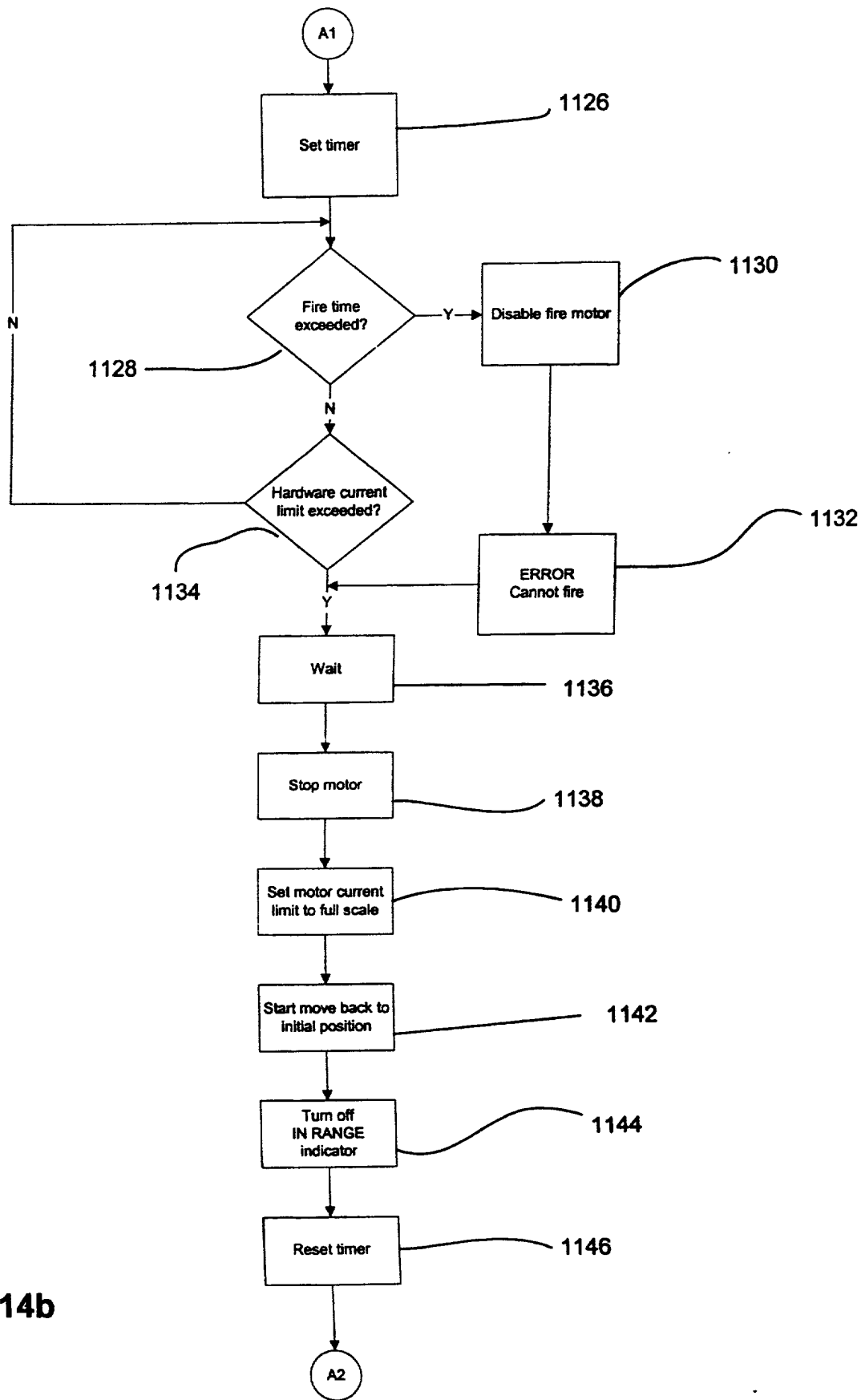
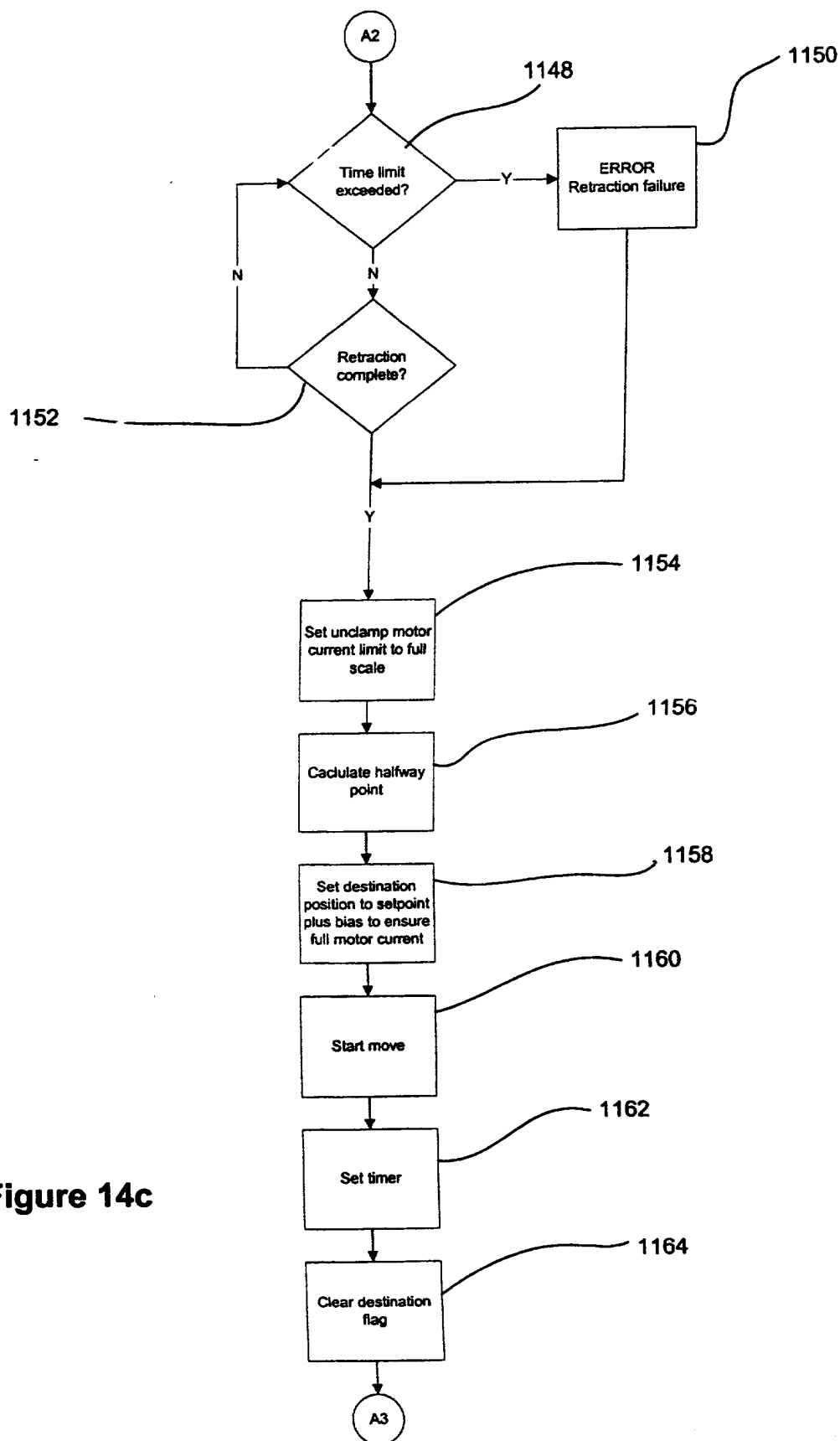
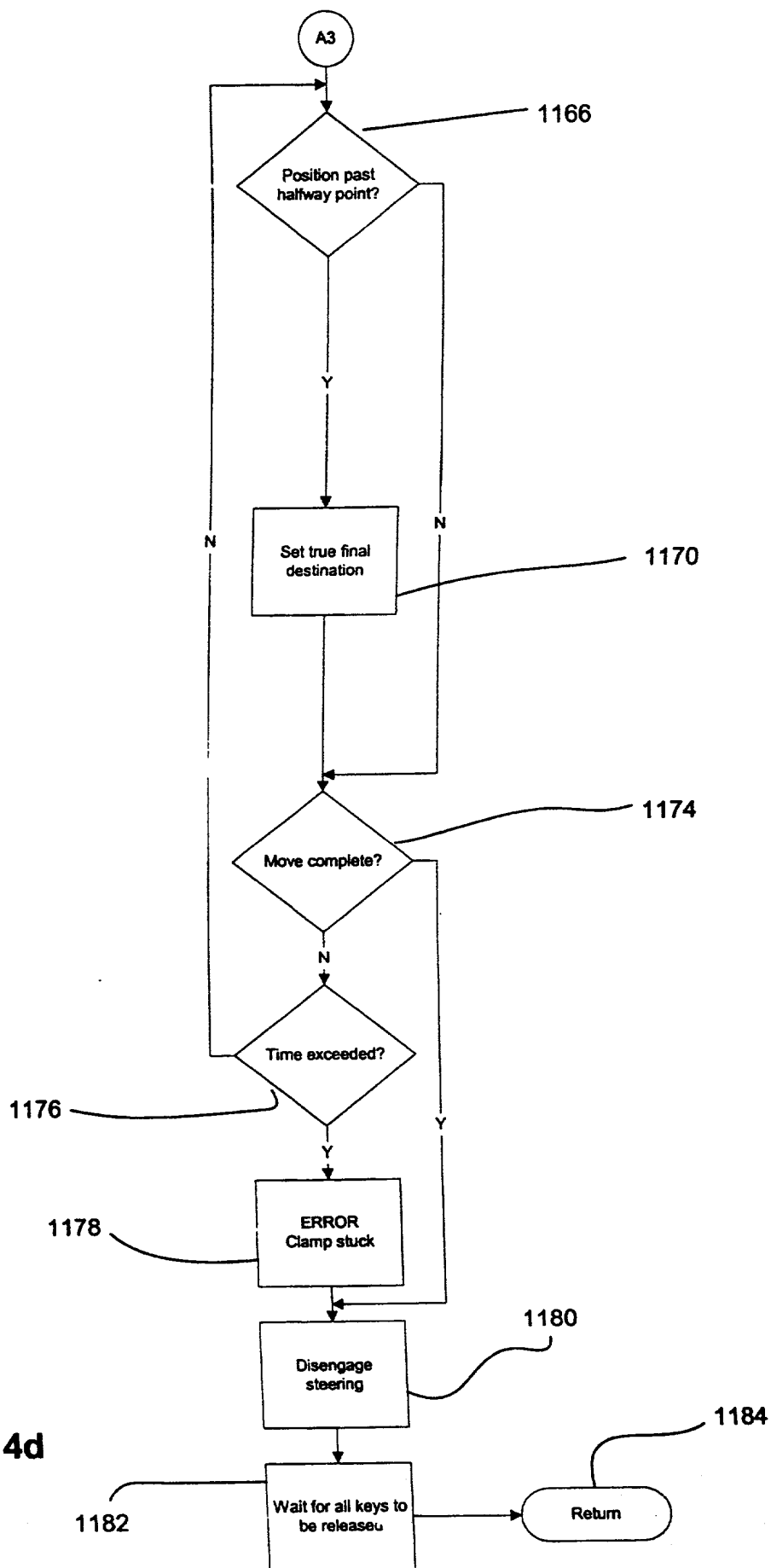


Figure 14b





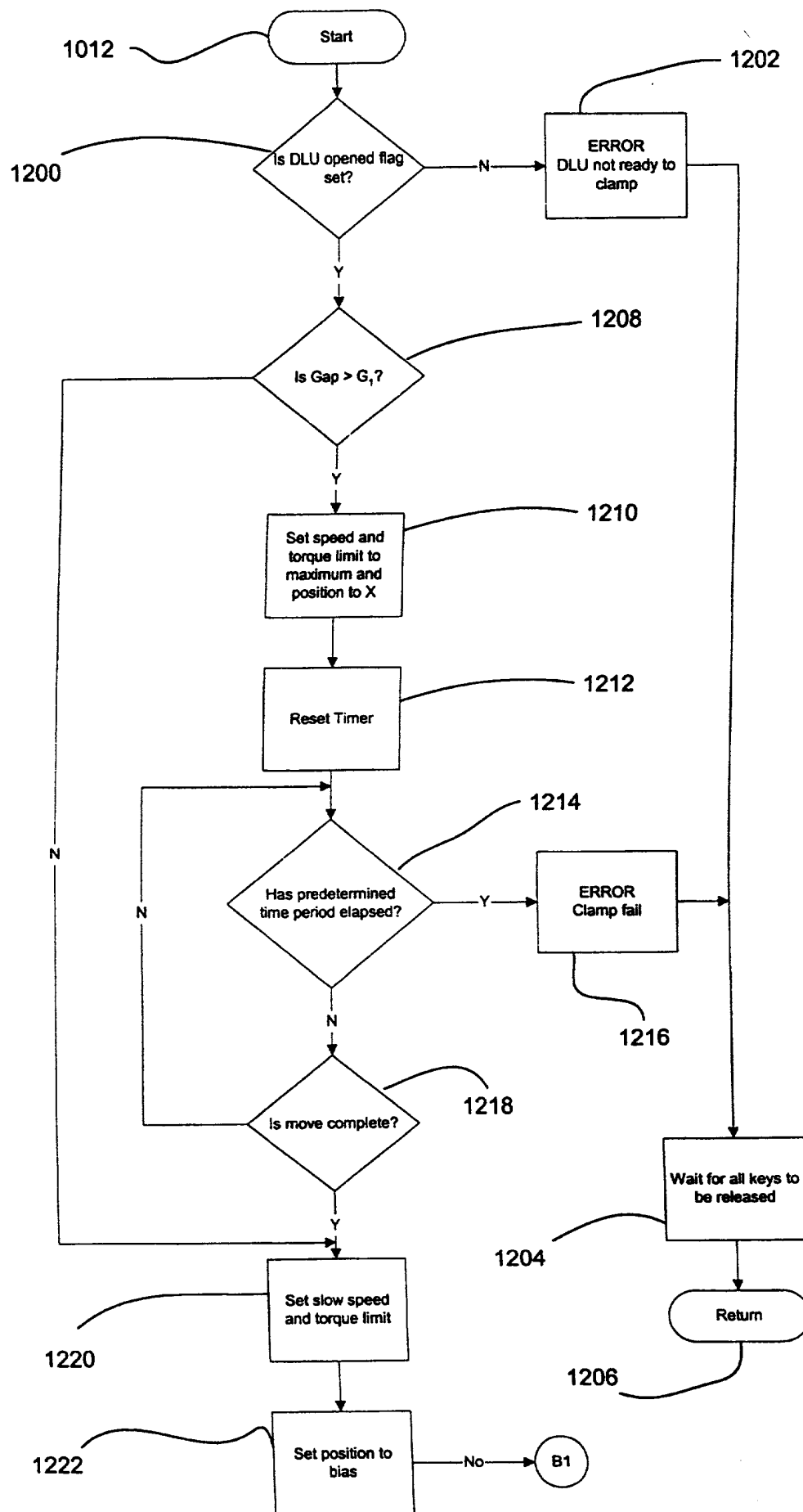


Figure 15a

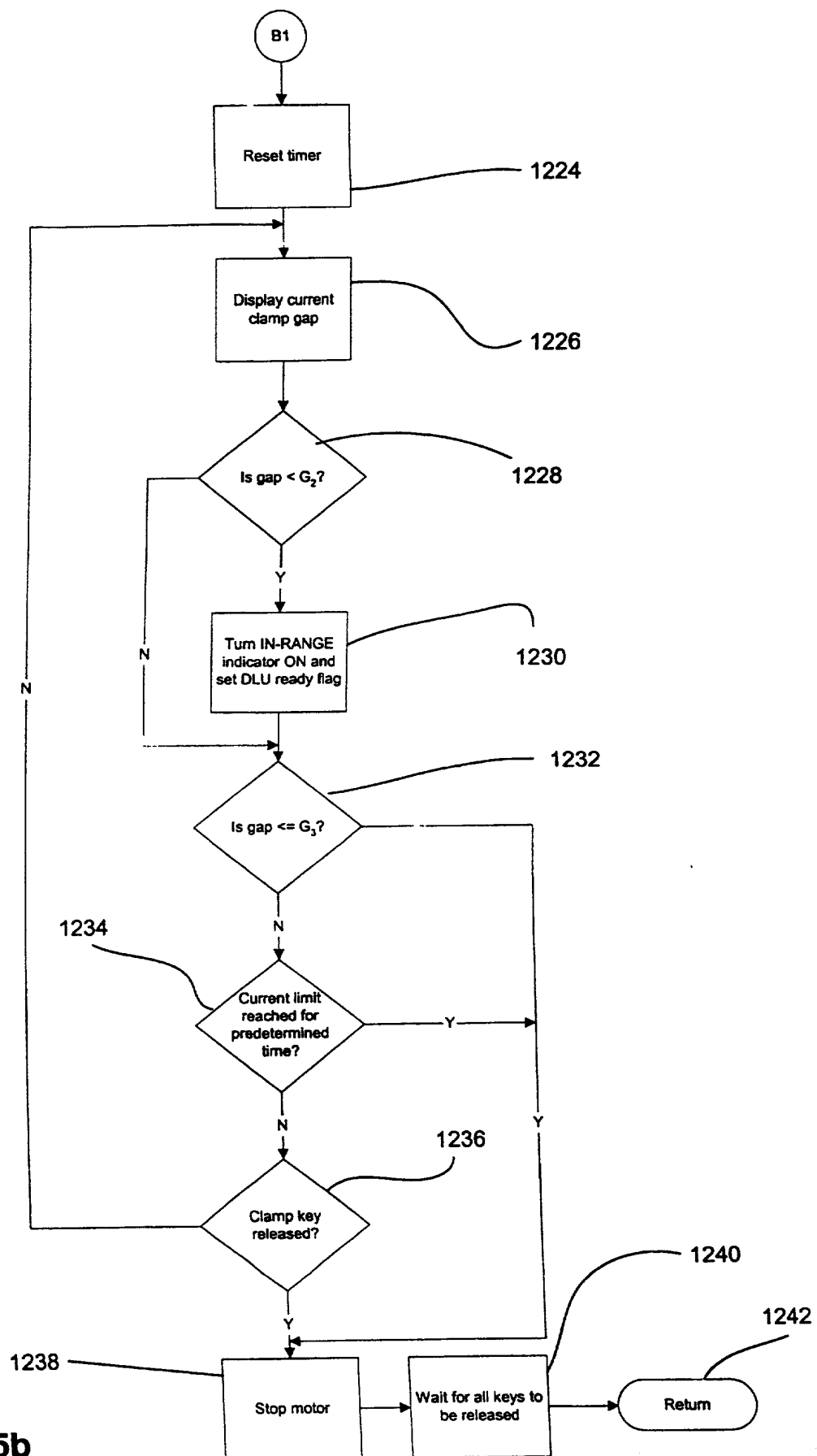


Figure 15b

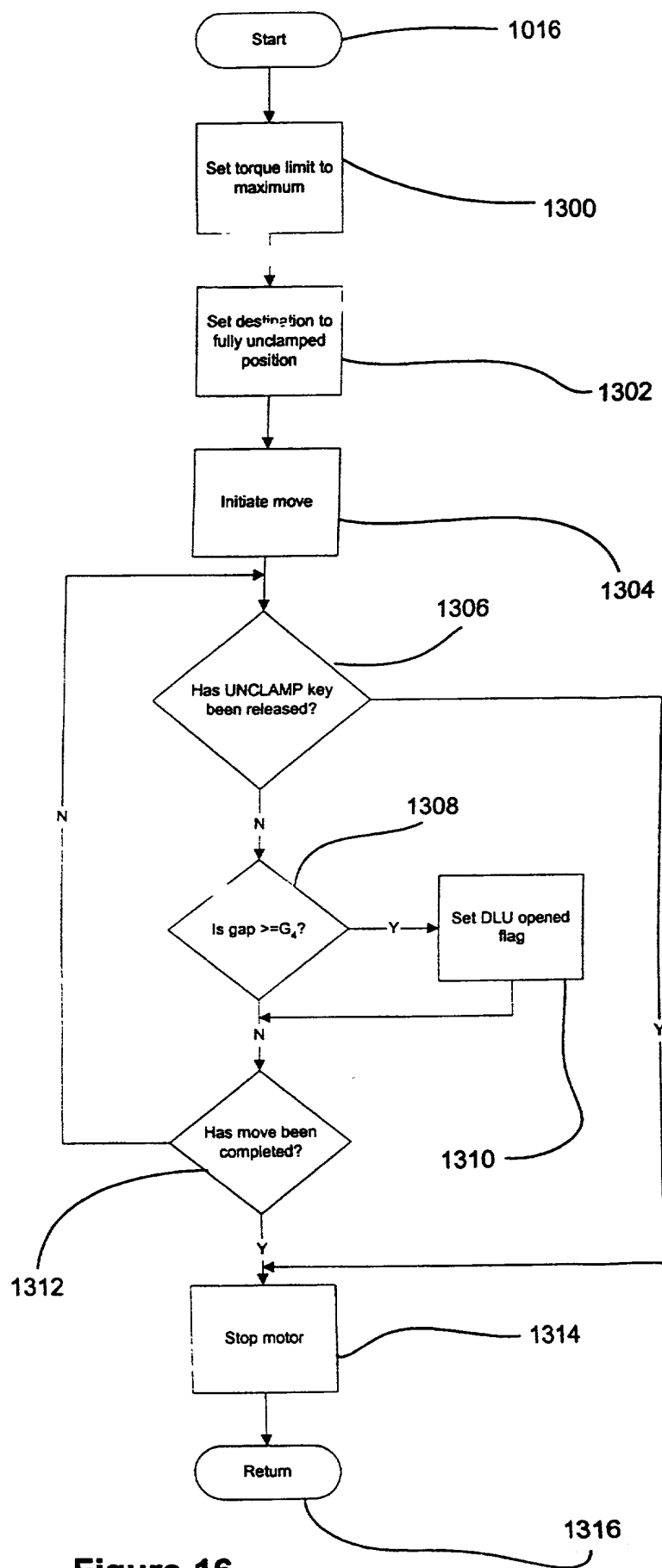


Figure 16

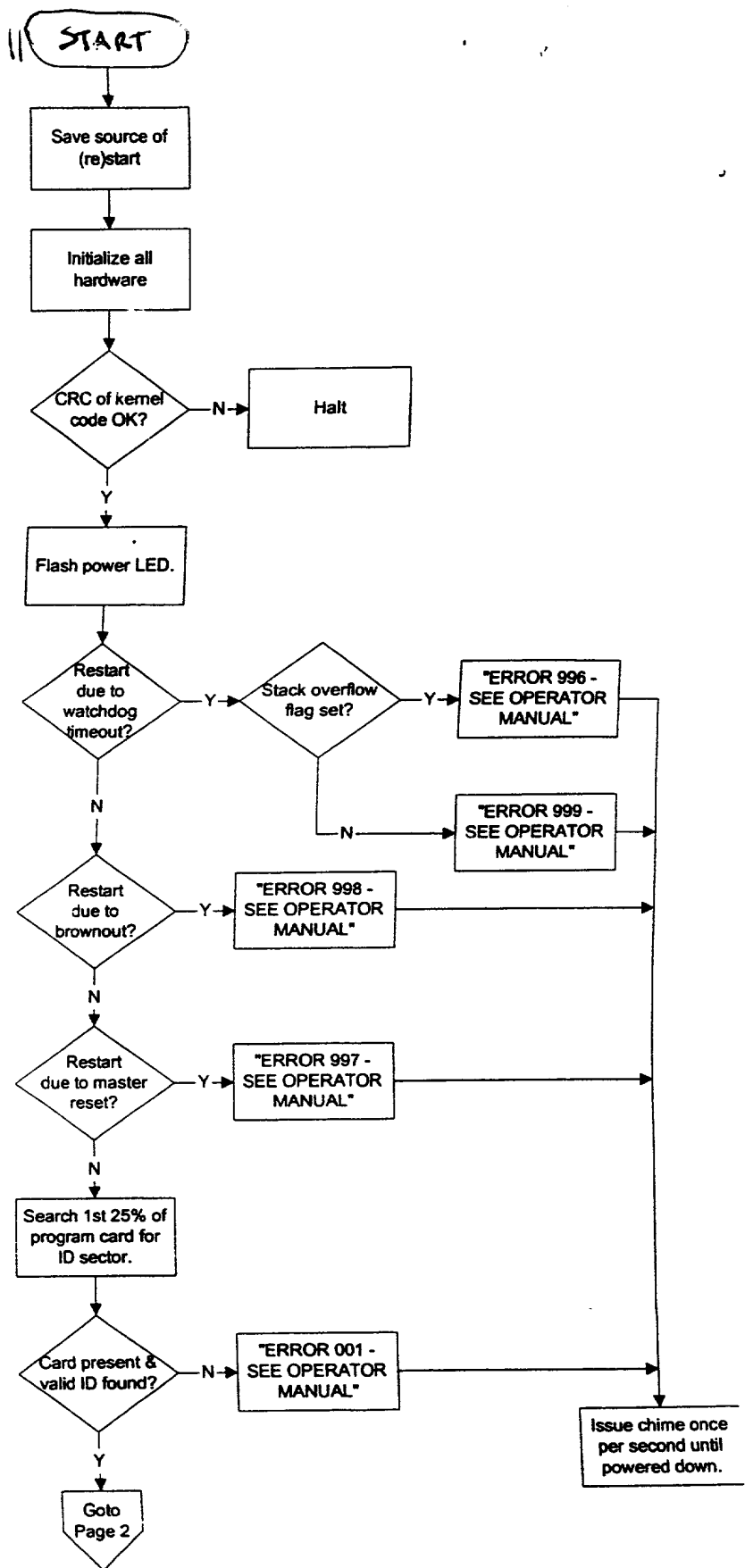


FIG. 17a

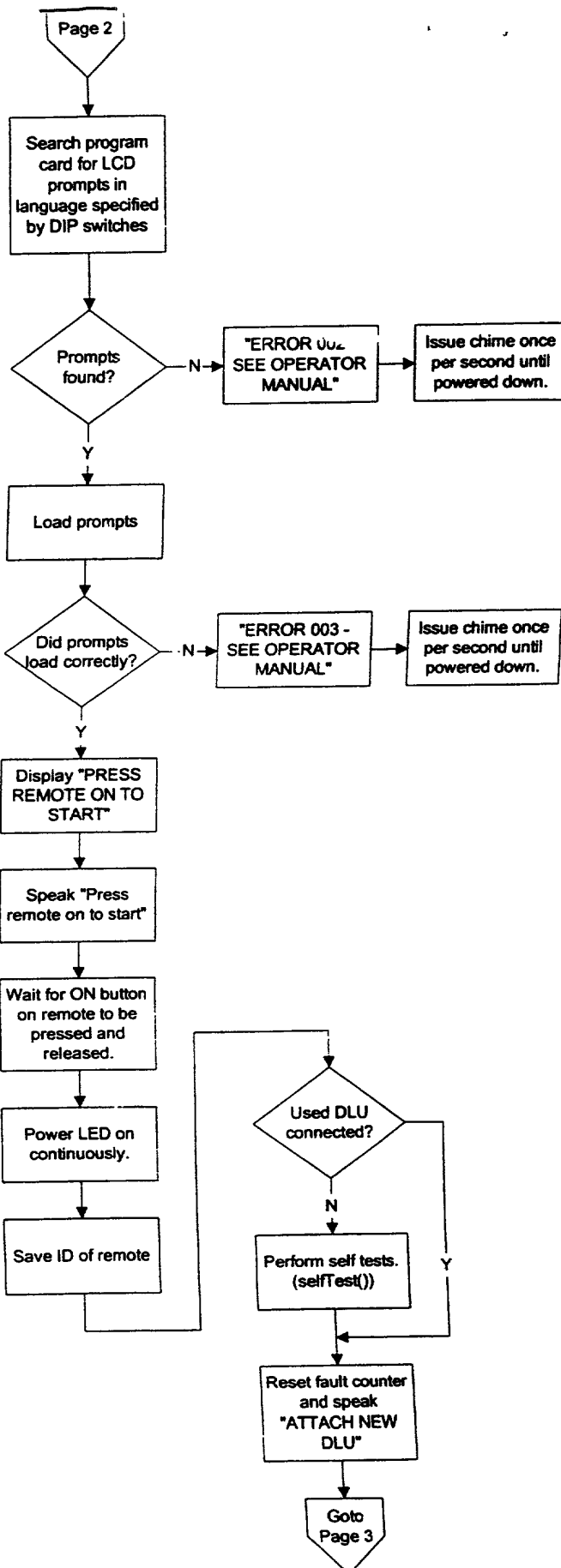


FIG. 17b

Main processing loop

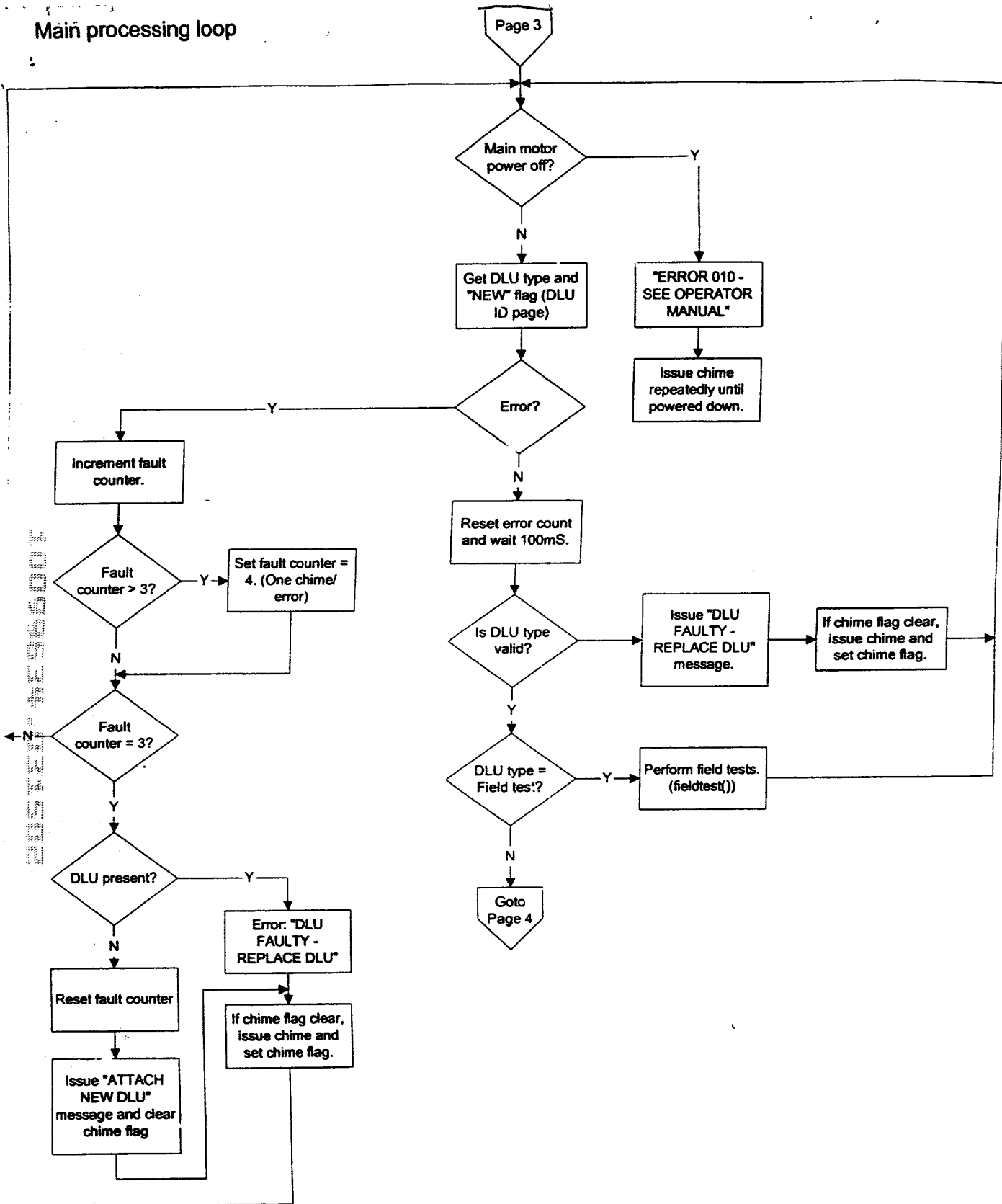


FIG. 17c

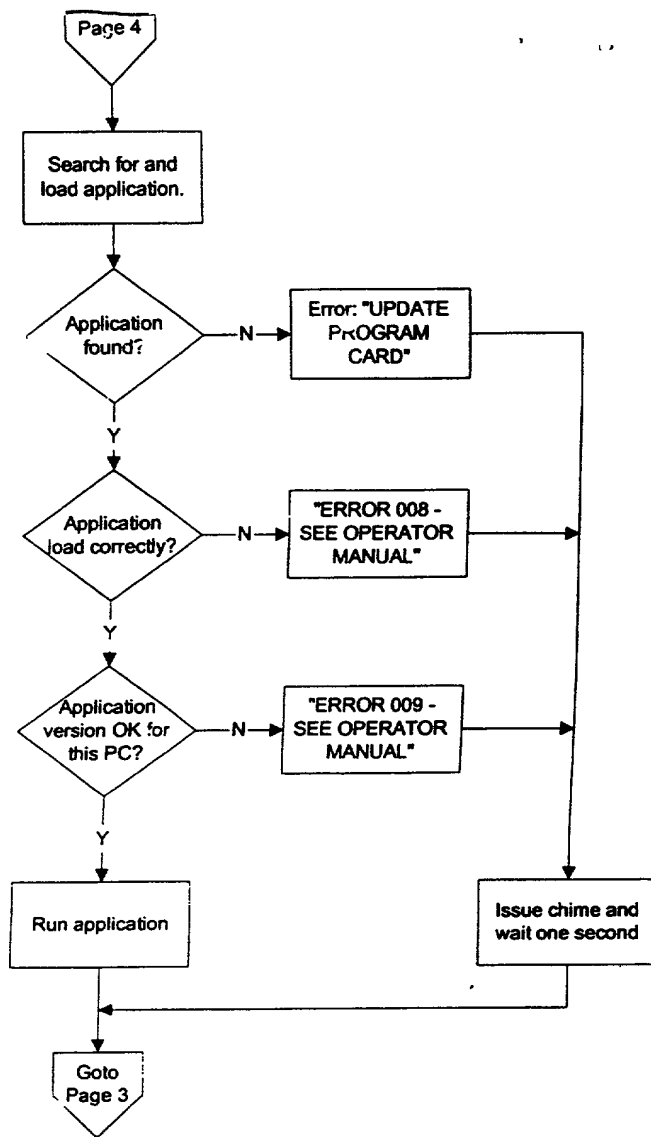


FIG. 17d

START

Is DLU present?

Wait for DLU removal.

Display message "REMOVE DLU" and issue chime.

24V ok?

Issue chime once per second until powered down.

"ERROR 004 - SEE OPERATOR MANUAL"

RCU battery OK?

Error: "REPLACE REMOTE CONTROL NOW"

RCU battery dead?

Issue chime once per second until powered down.

Error: "REMOTE CONTROL BATTERY LOW REPLACE AFTER PROCEDURE PRESS ON TO CONTINUE"

Wait for ON button, issuing chime once per second.

Jog motor 1 clockwise & wait JOG_TIME msec.

Move complete?

Jog motor 1 counter clockwise & wait JOG_TIME msec.

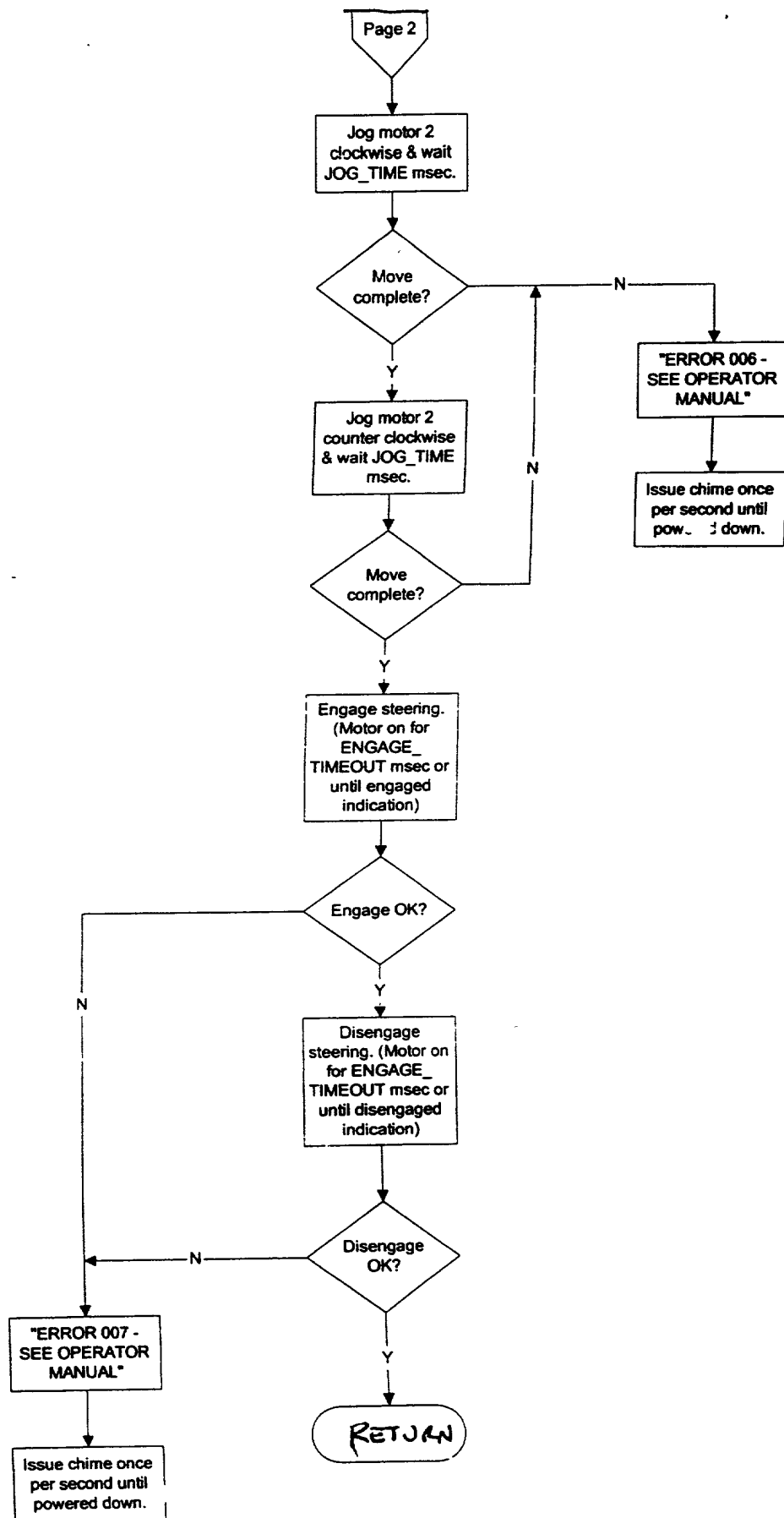
Move complete?

Goto Page 2

"ERROR 005 - SEE OPERATOR MANUAL"

Issue chime once per second until powered down.

FIG. 18a



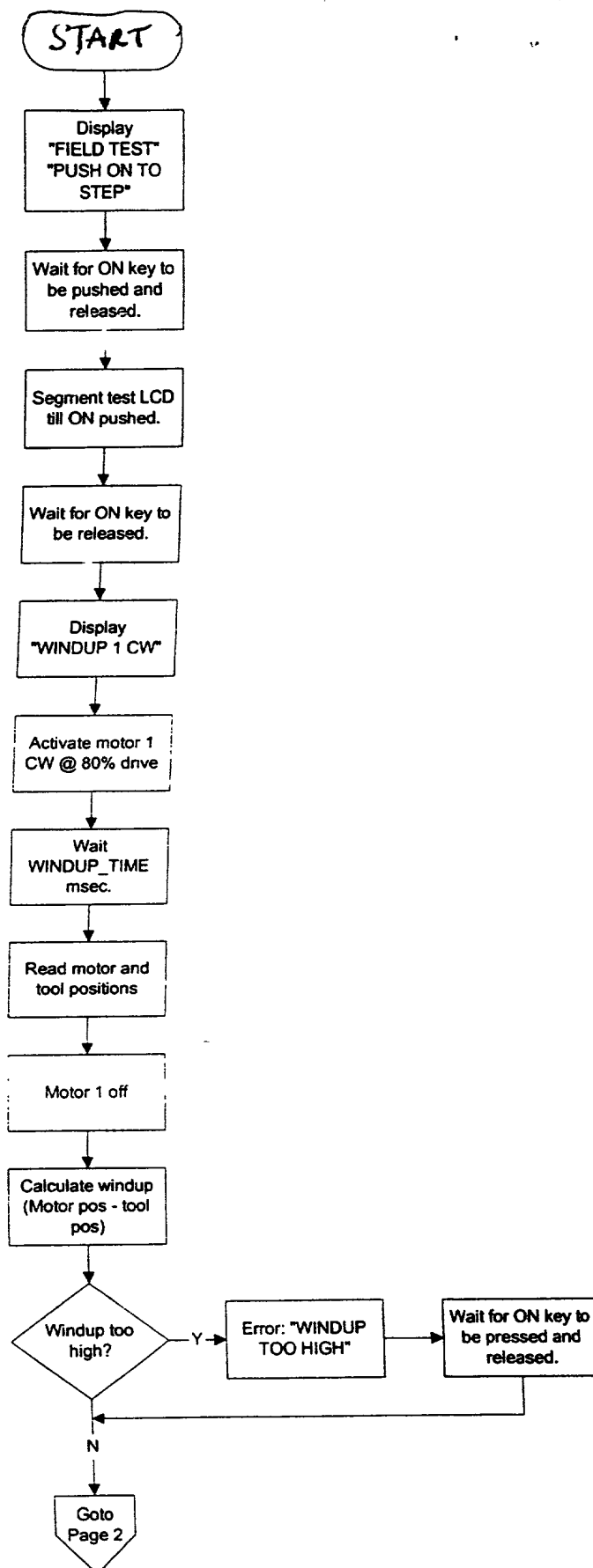
[illegible]

FIG. 19a

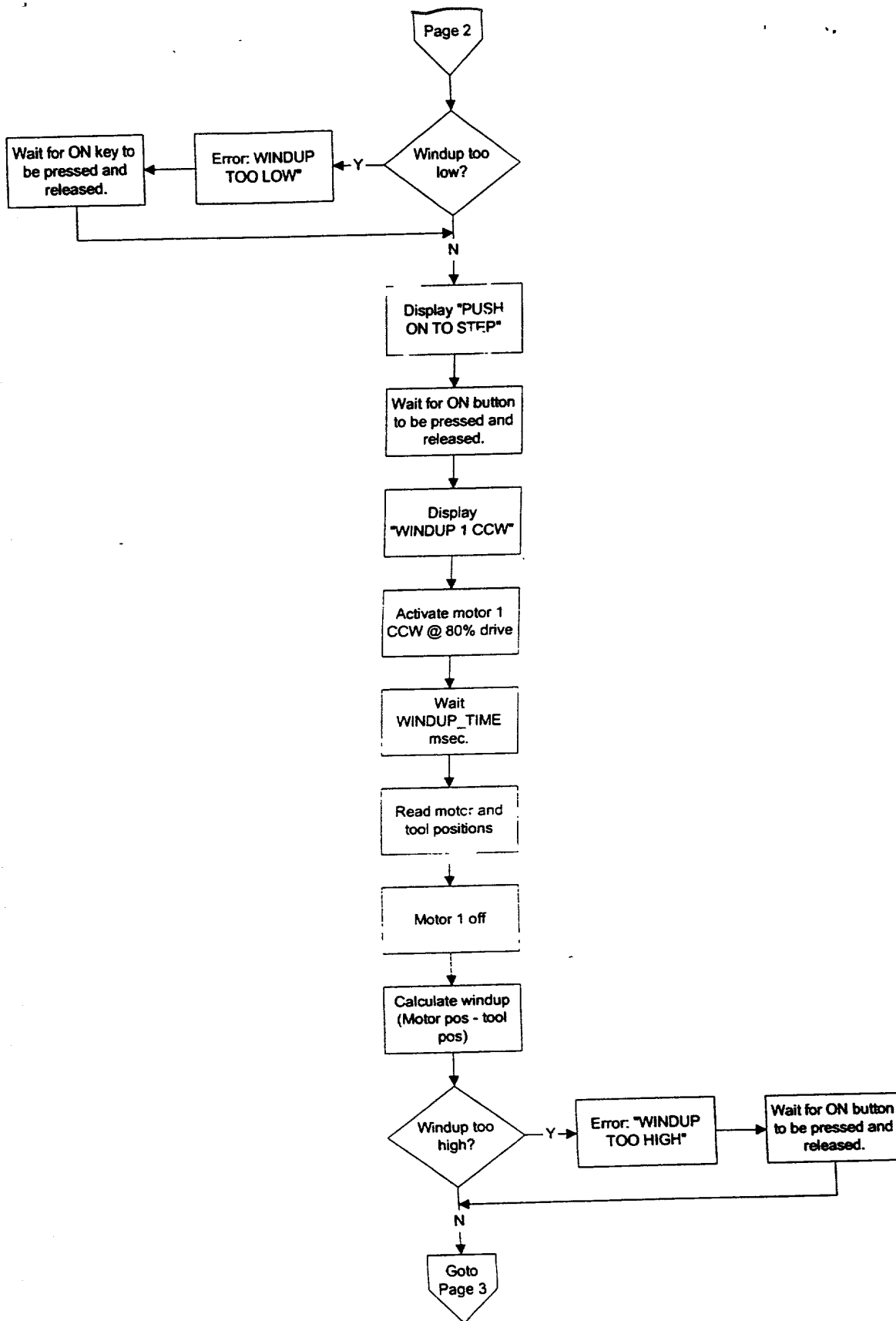


FIG. 196

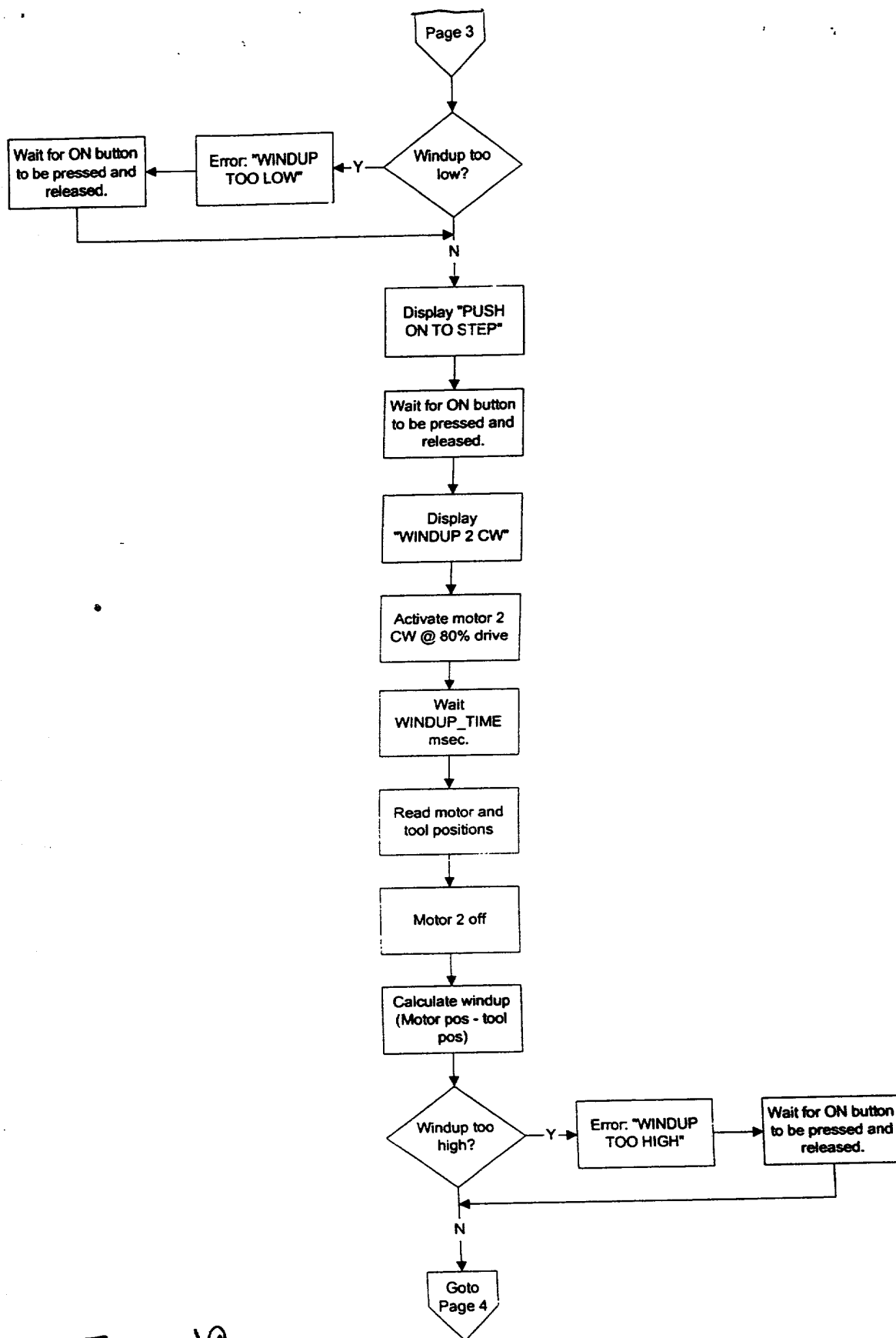
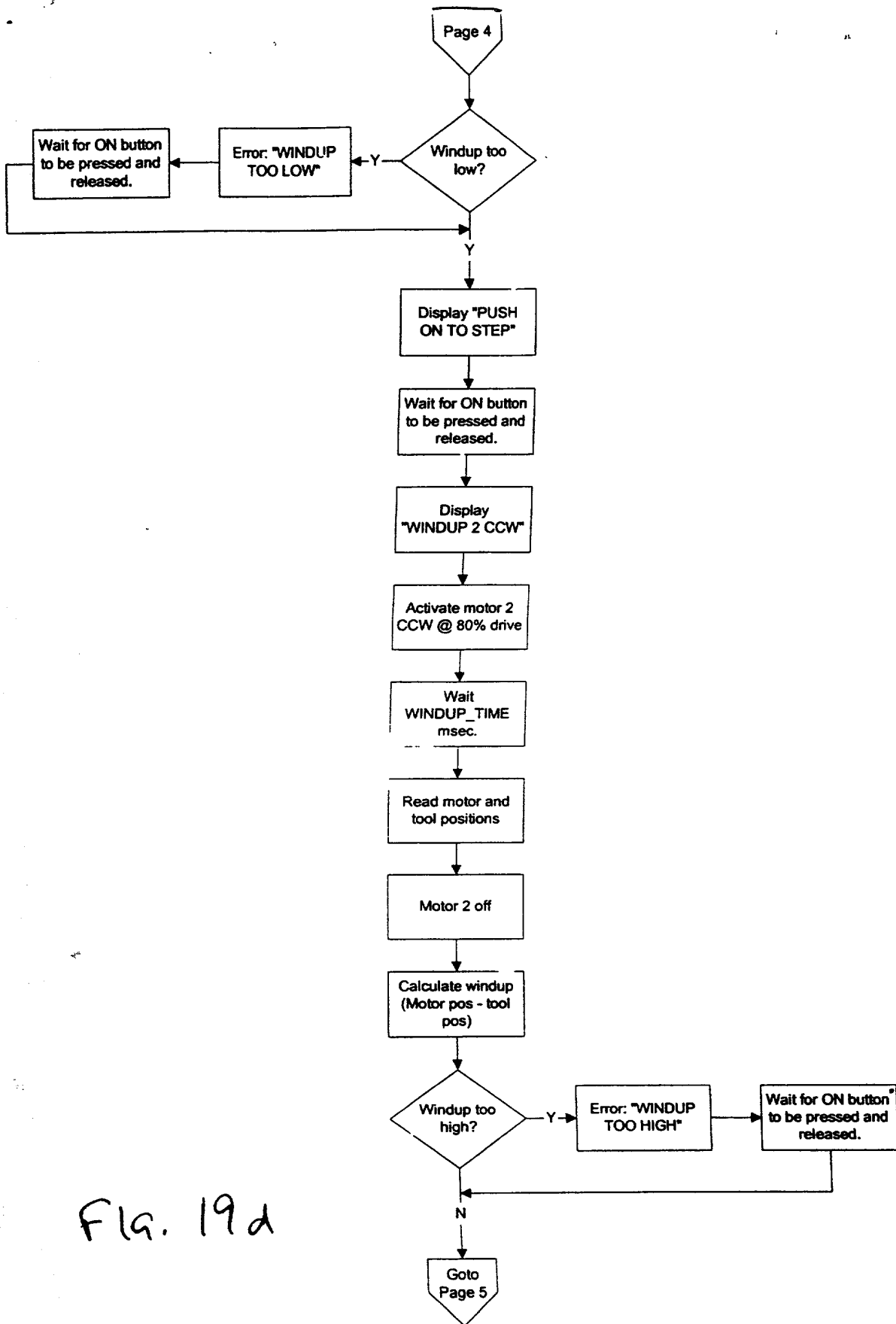


FIG. 19c



Flg. 19a

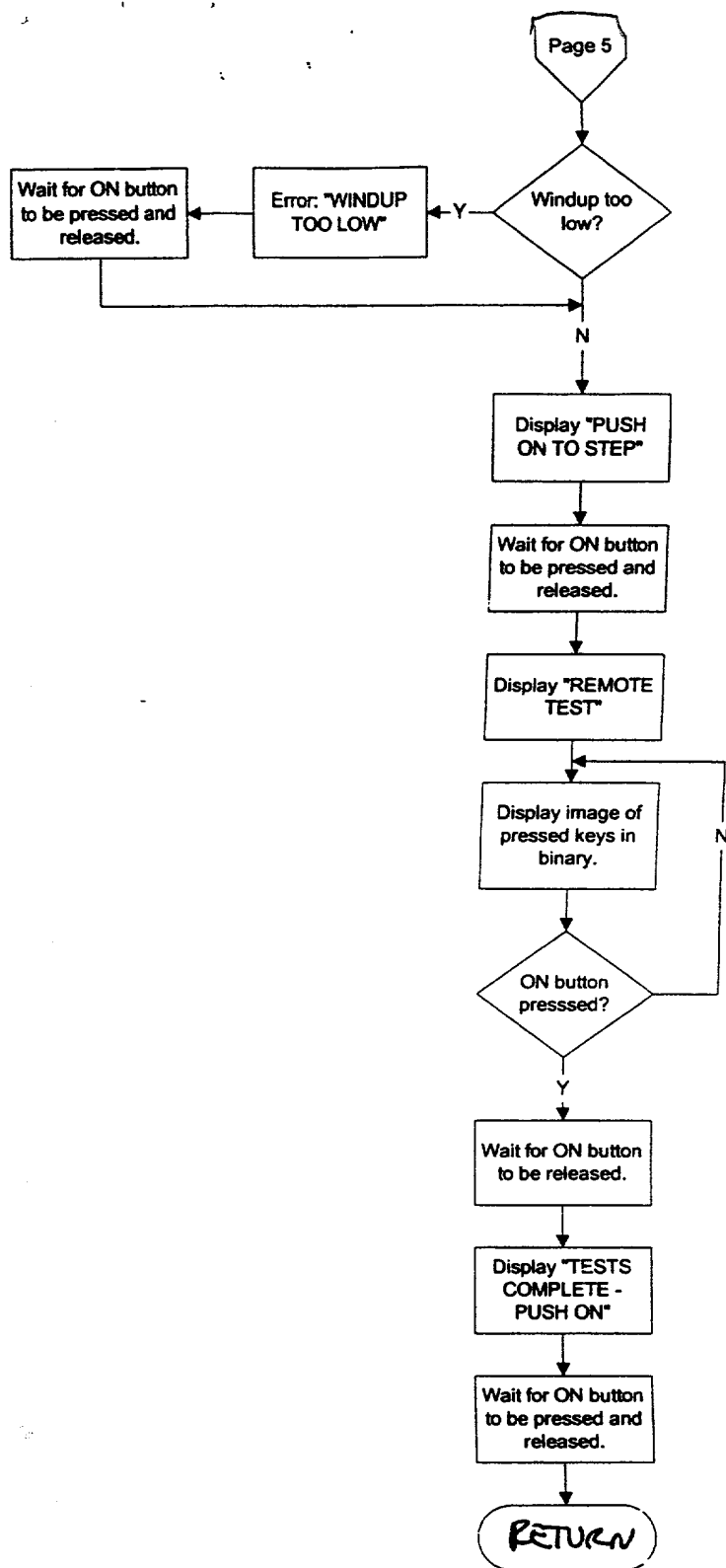


FIG. 19e

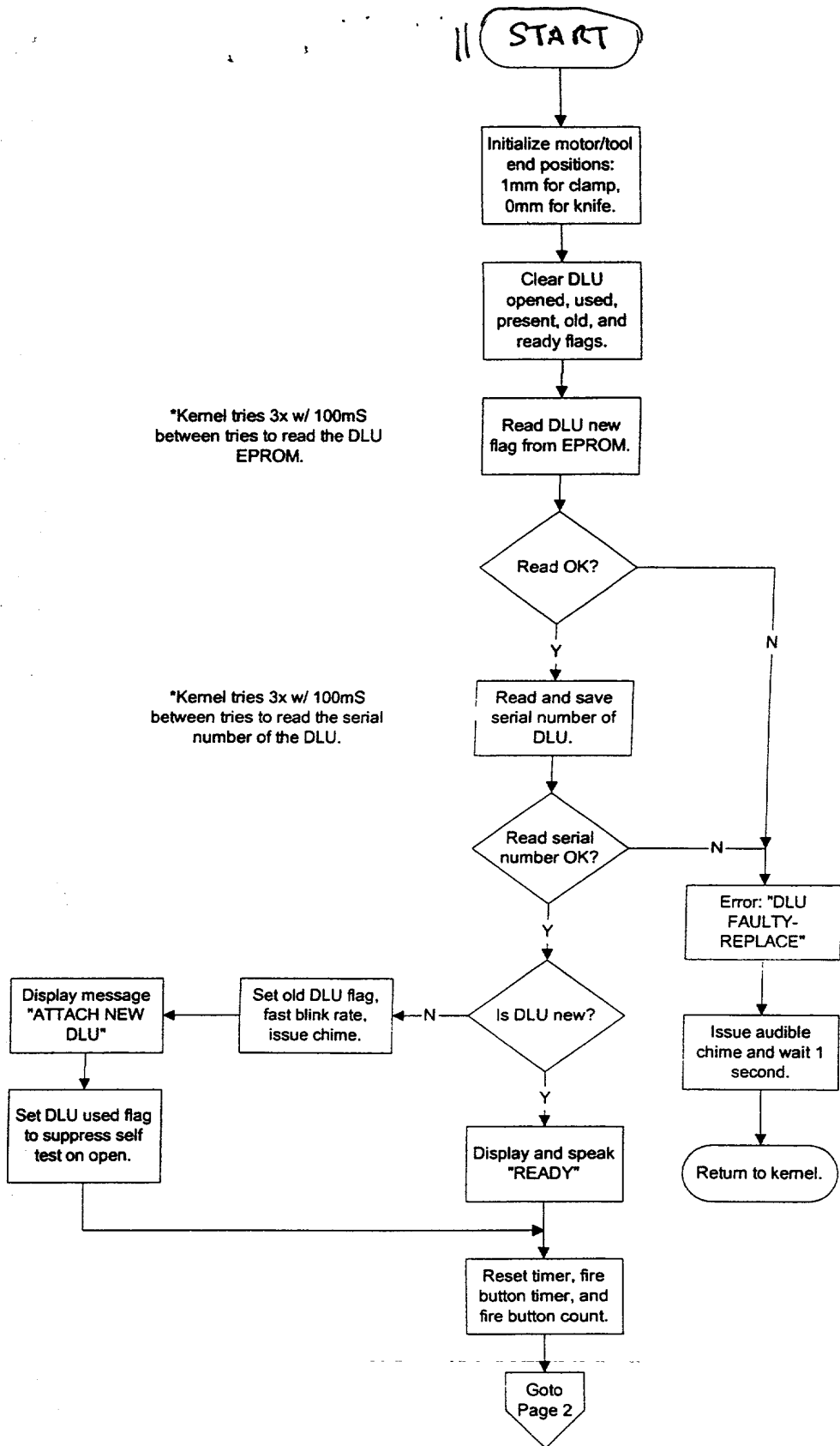


FIG. 20a

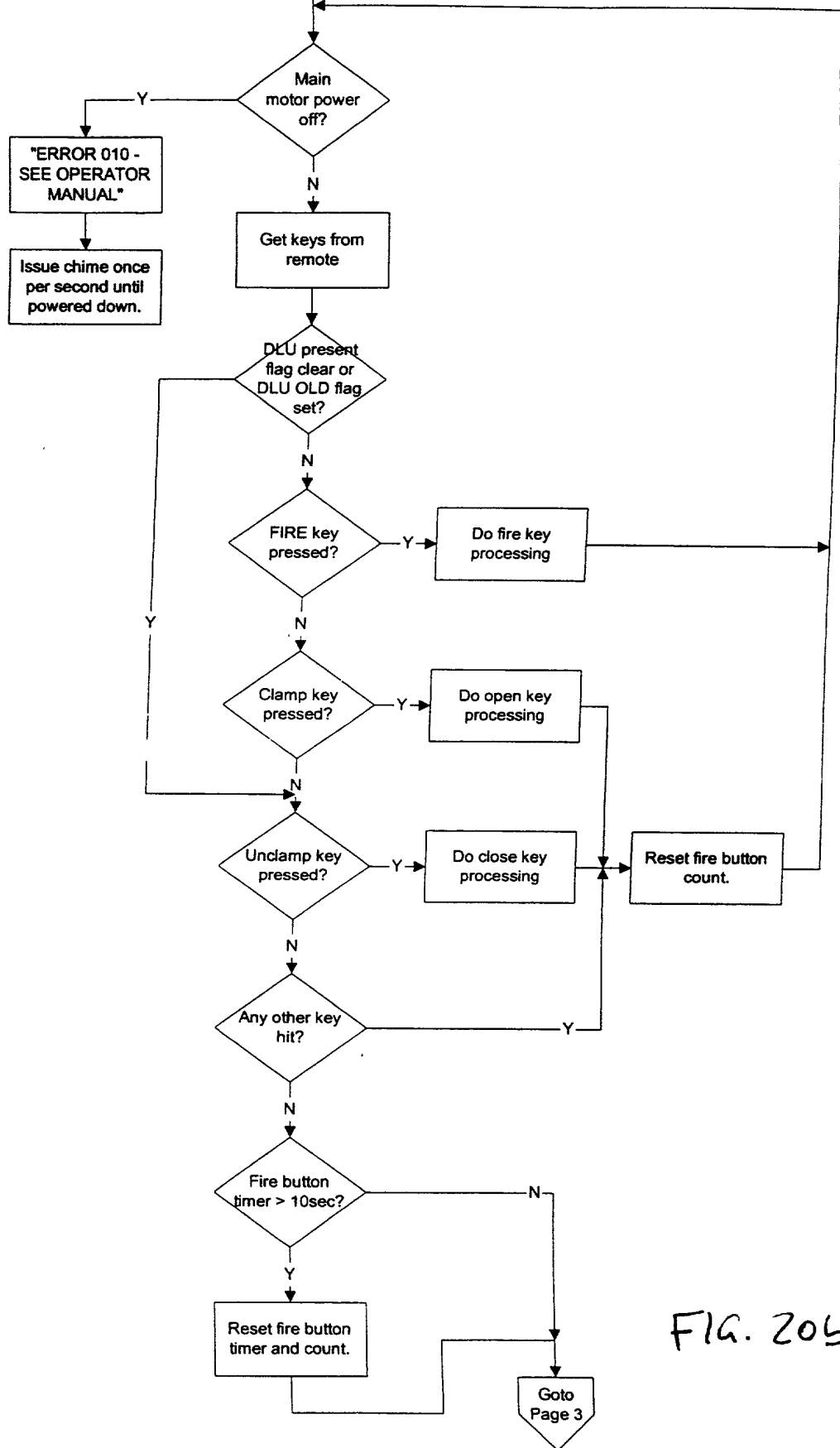
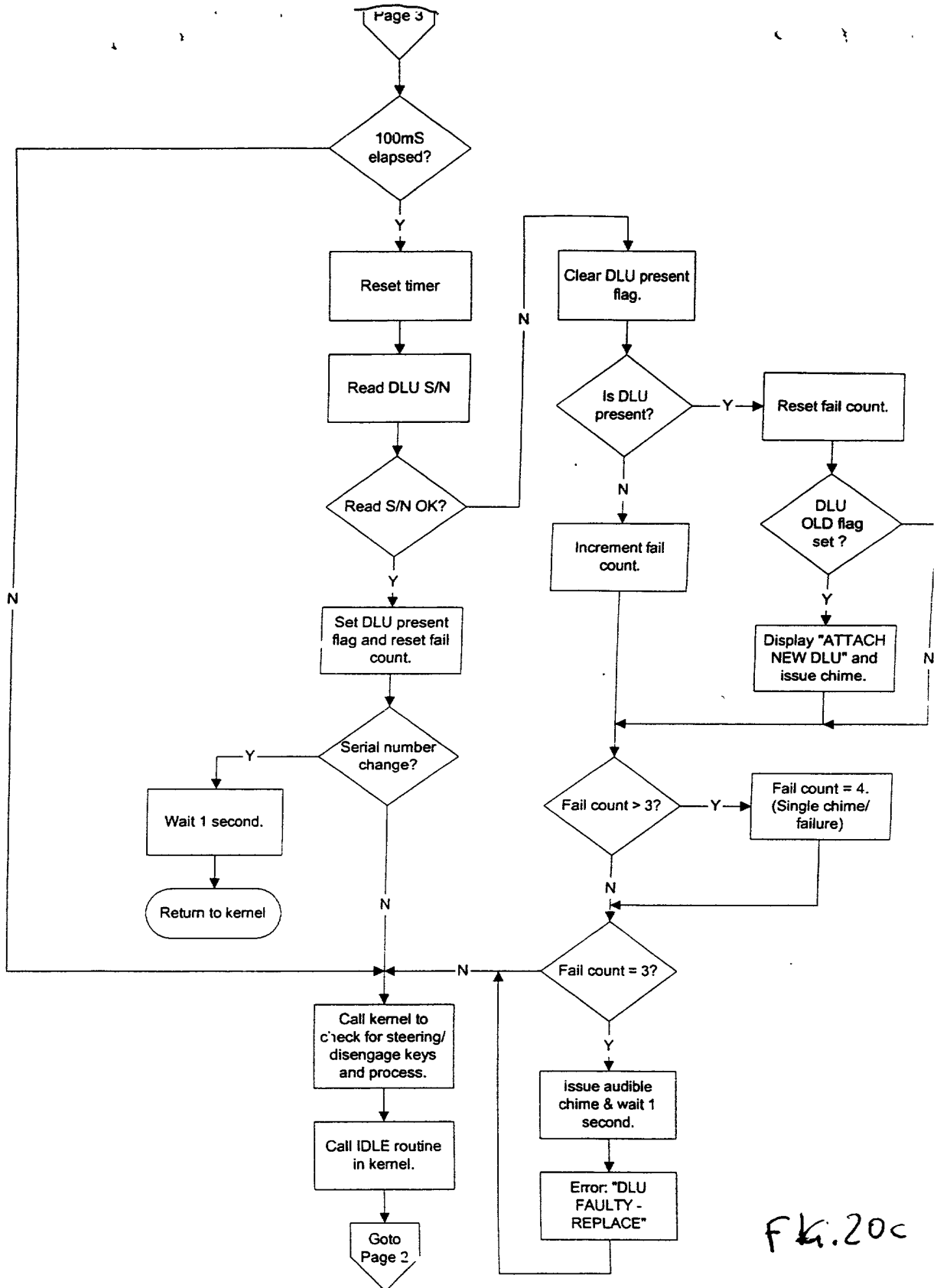


FIG. 206



FK.20c

*Try 3x w/ 100mS time between tries to read DLU. If this fails, issue message and exit. The retries are performed by the kernel.

*Try 3x w/ 100mS time between tries to decrement DLU. The retries are performed by the kernel.

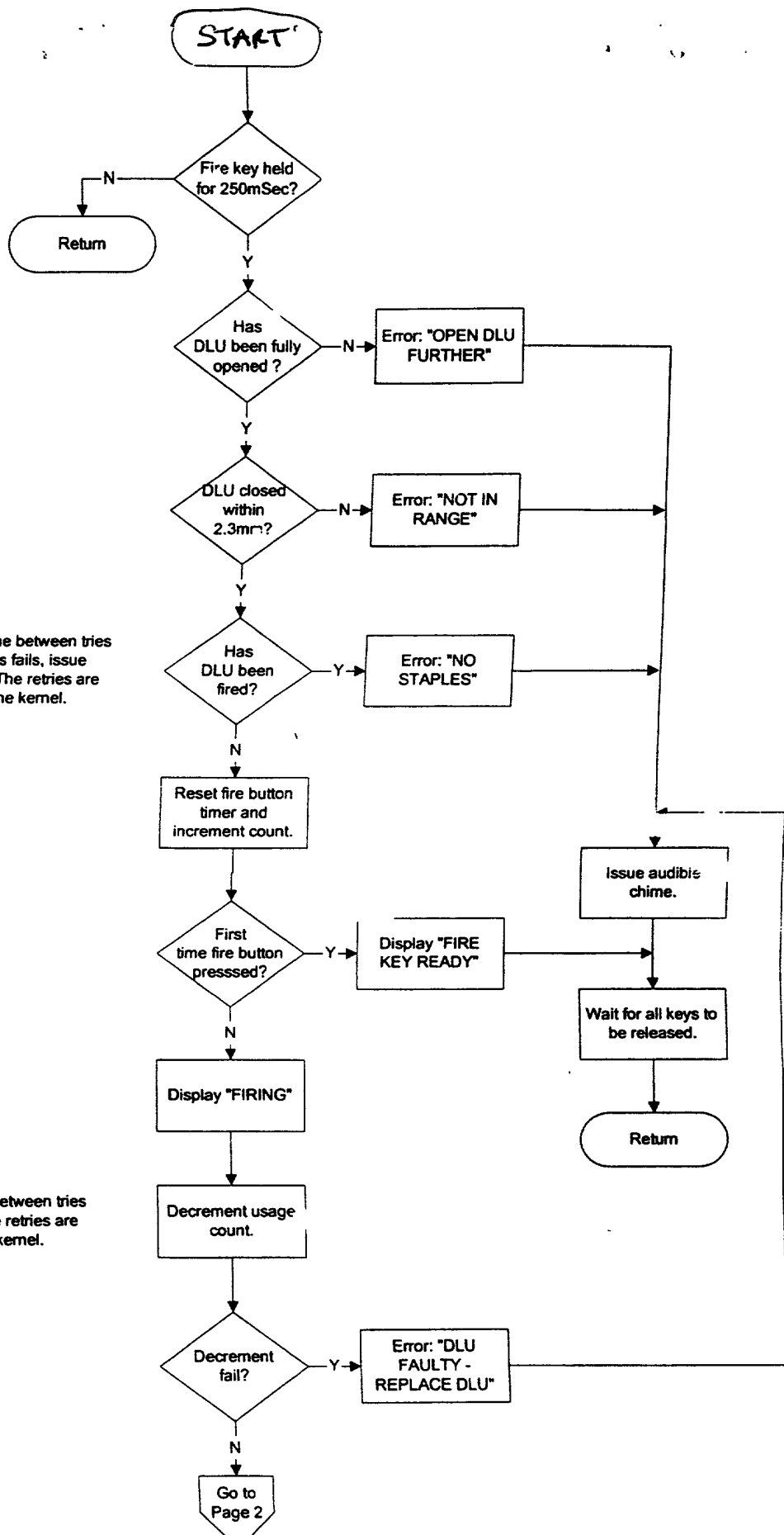
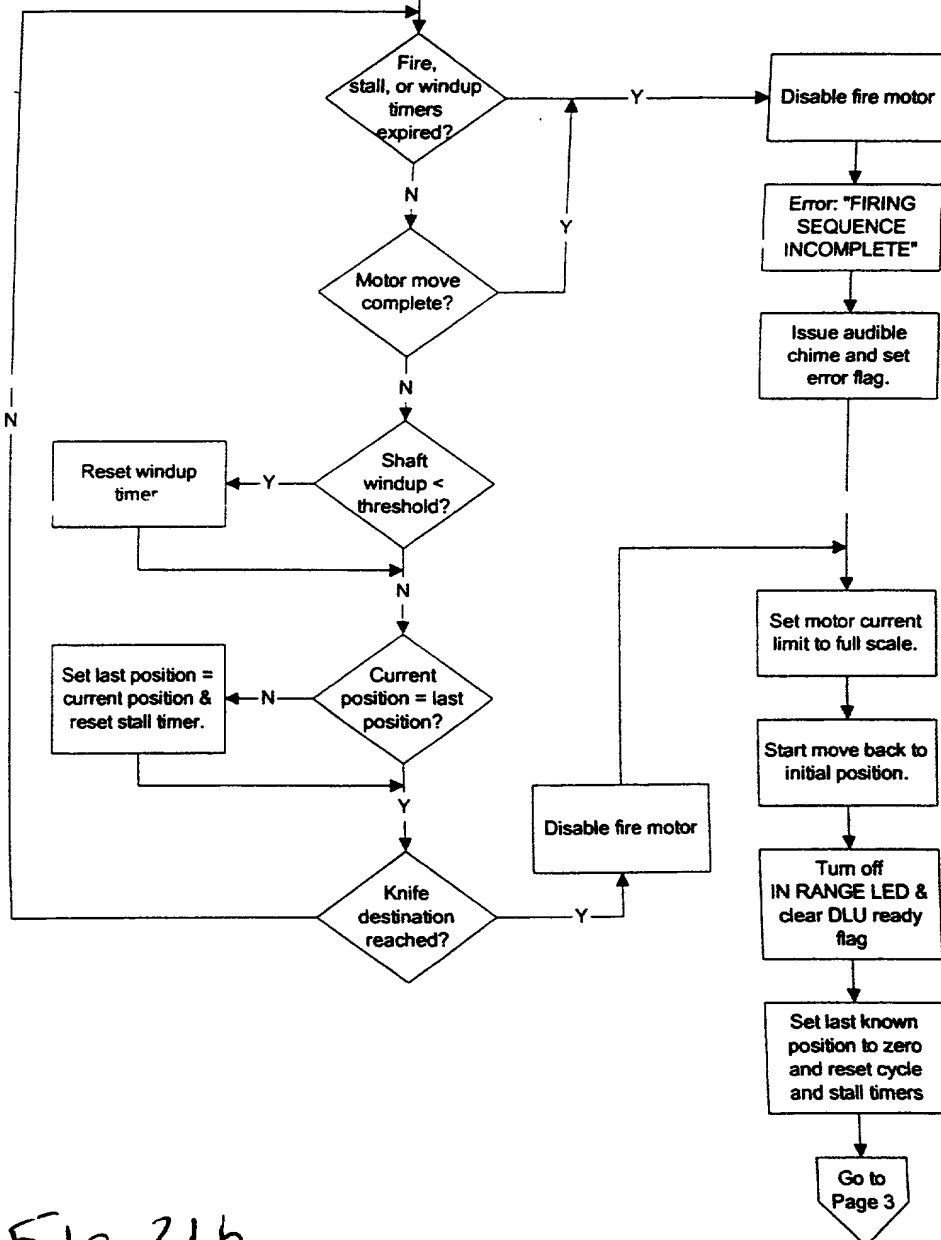


FIG. 21a



Windup threshold is defined as
SHAFT_WINDUP_MAX

Fig. 21b

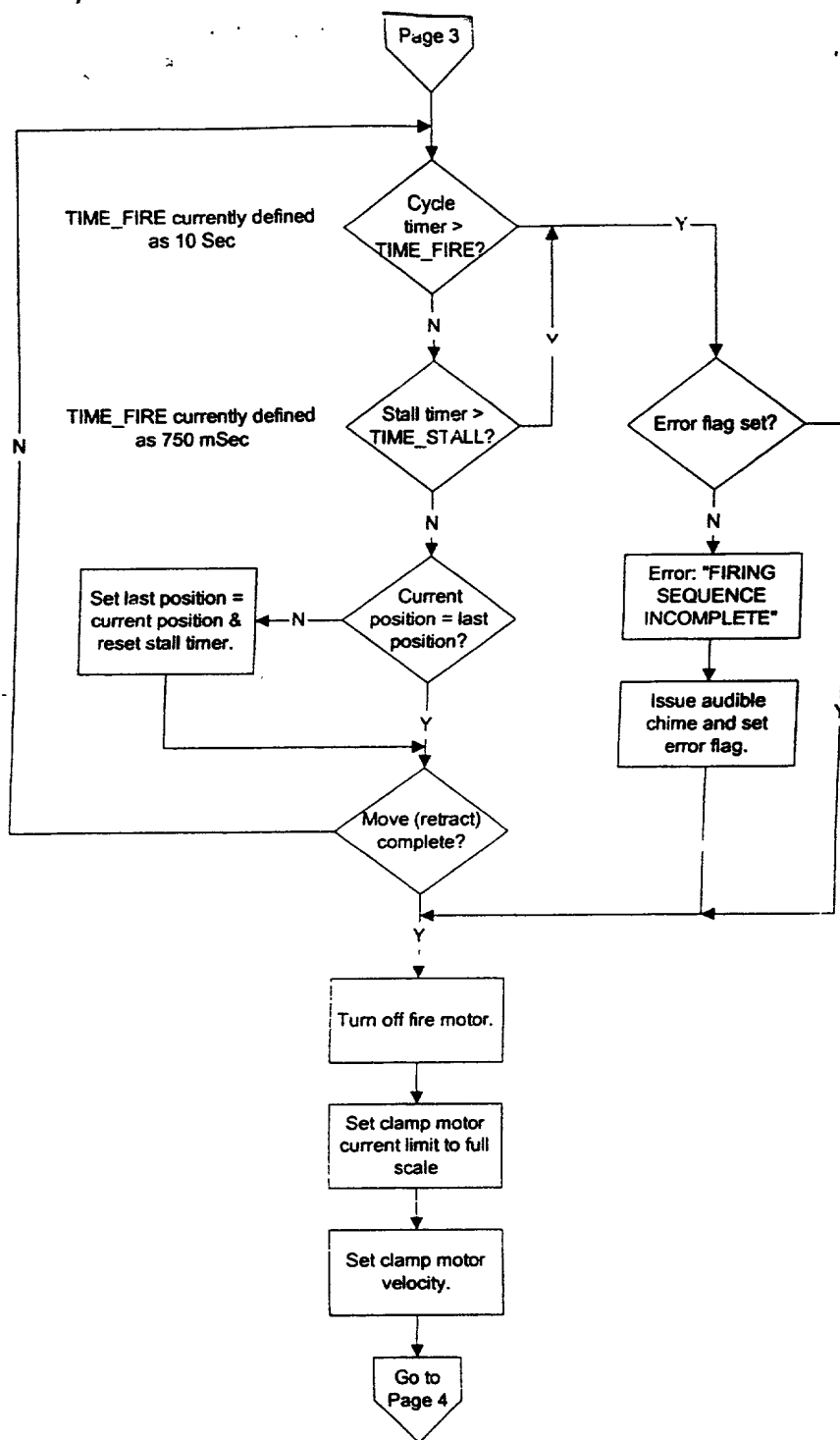


FIG. 21c

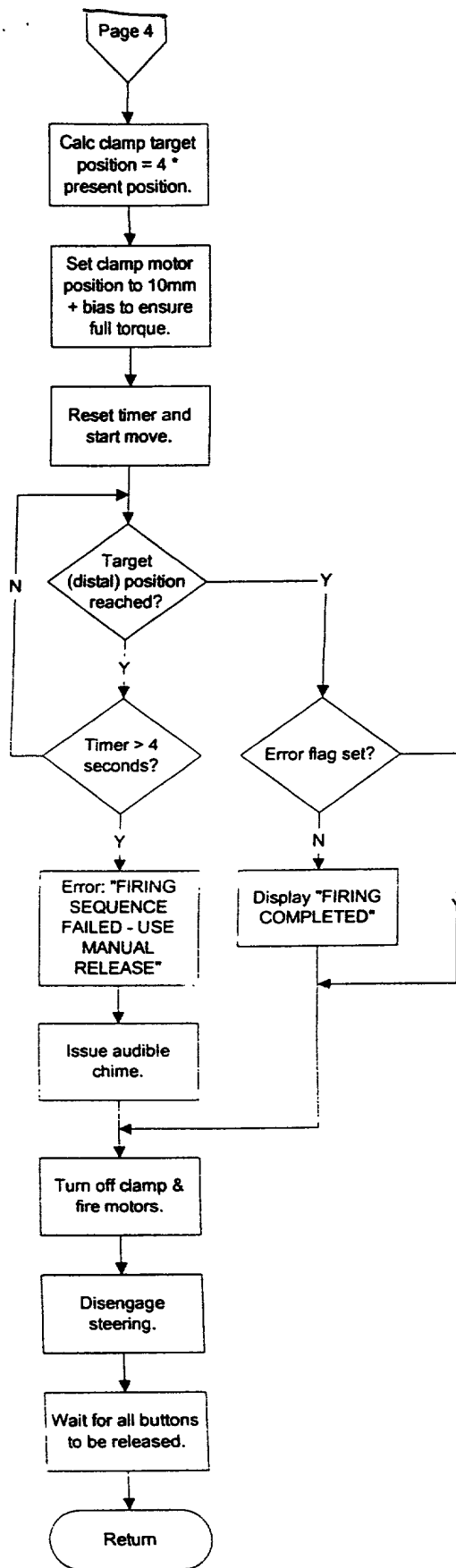


FIG. 21d

2025 RELEASE UNDER E.O. 14176

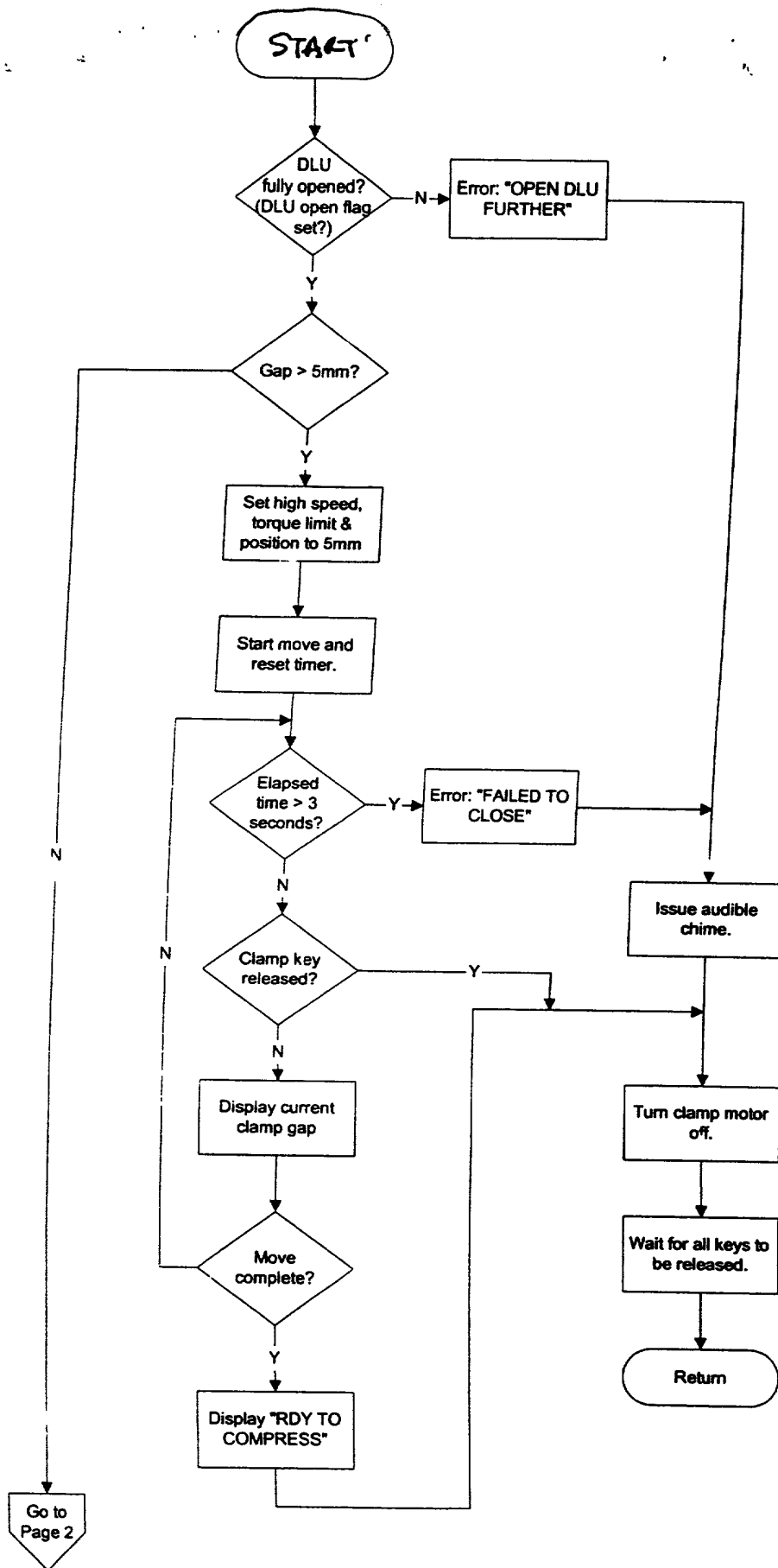


FIG. 22a

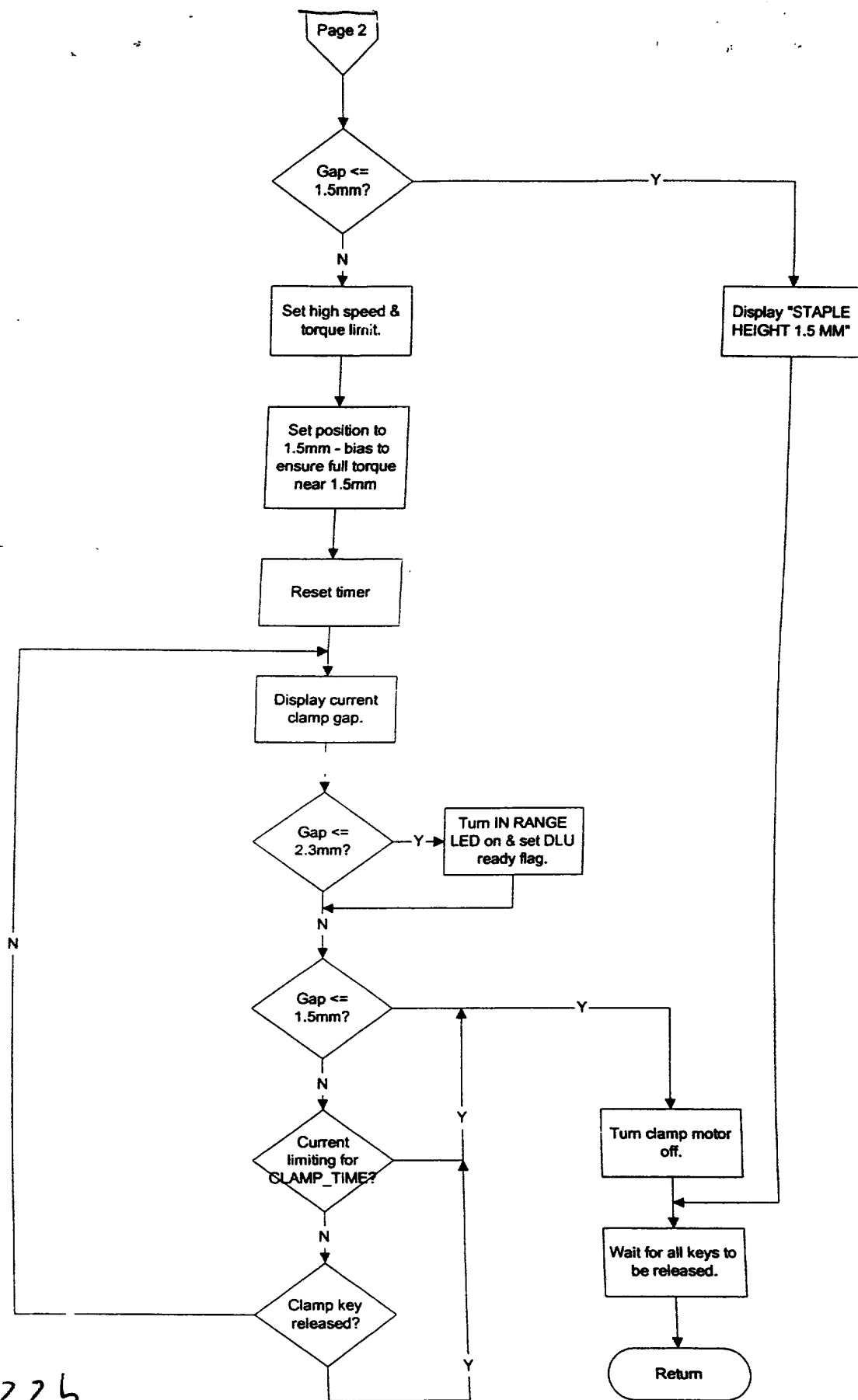


FIG. 226

START

DLU
used flag
set?

N

Mark the DLU as
used.

Write to DLU
fail?

Y

Error: "DLU
FAULTY -
REPLACE DLU"

Issue audible
chime.

Wait for all keys to
be released.

Return

N

Set knife motor
torque to full scale,
velocity to 2500
RPM and position
to 8 shaft
revolutions.

Wait 250mSec or
move complete.

Time expired?

Y

"ERROR 006 -
SEE OPERATOR
MANUAL"

Issue chime once
per second until
power down.

N

Did
shaft move < 2
revs at distal
end?

N

Error: "REPLACE
FLEXSHAFT"

Issue audible
chime.

Return knife motor
to original position
and turn motor off.

Wait for all keys to
be released.

Return

Y

Return knife motor
to original position
and turn motor off.

Set DLU used flag.

Go to
Page 2

*The kernel tries 3x w/ 100mS time
between tries to write DLU.

FIG. 23a

1009574 00000001

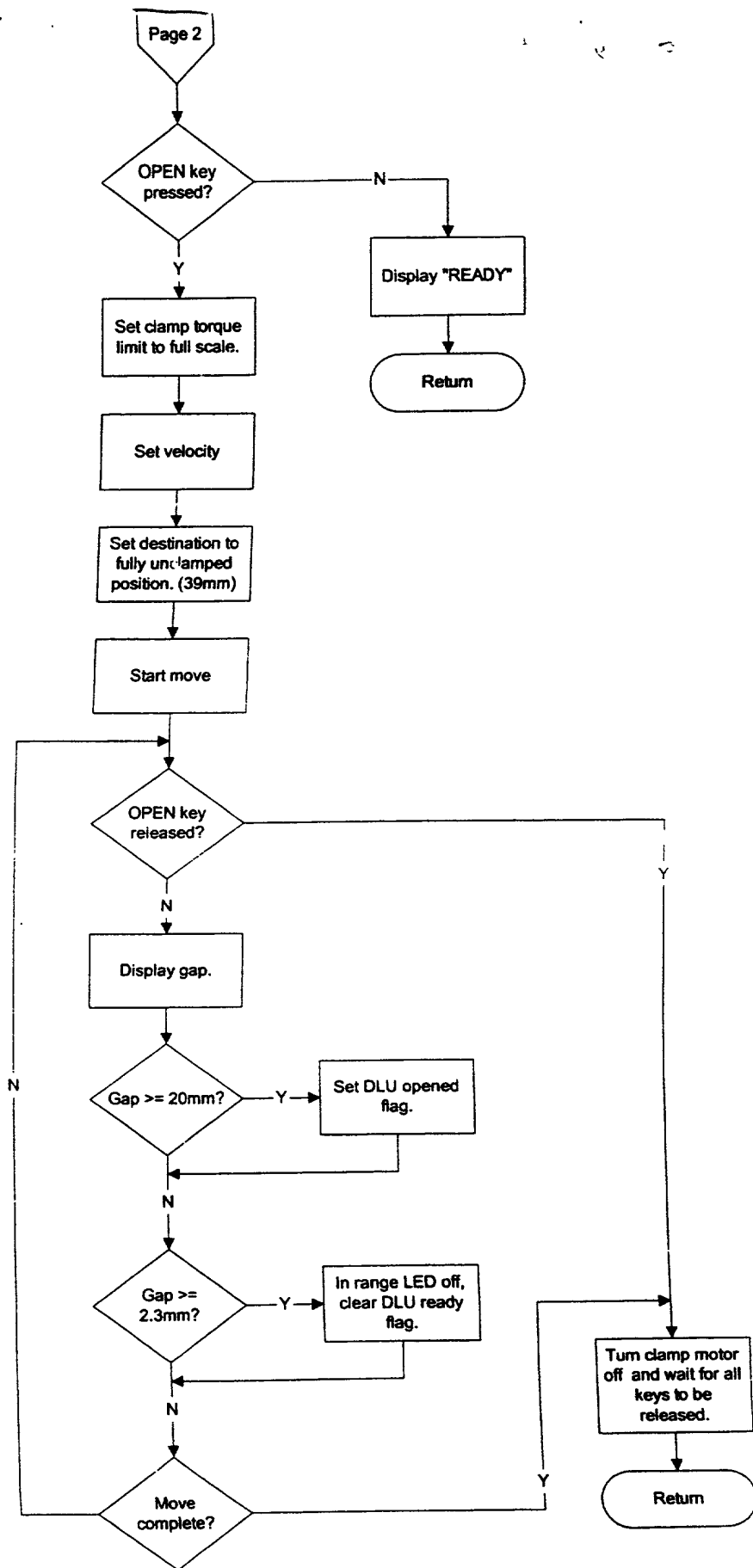


FIG. 23b

500 →

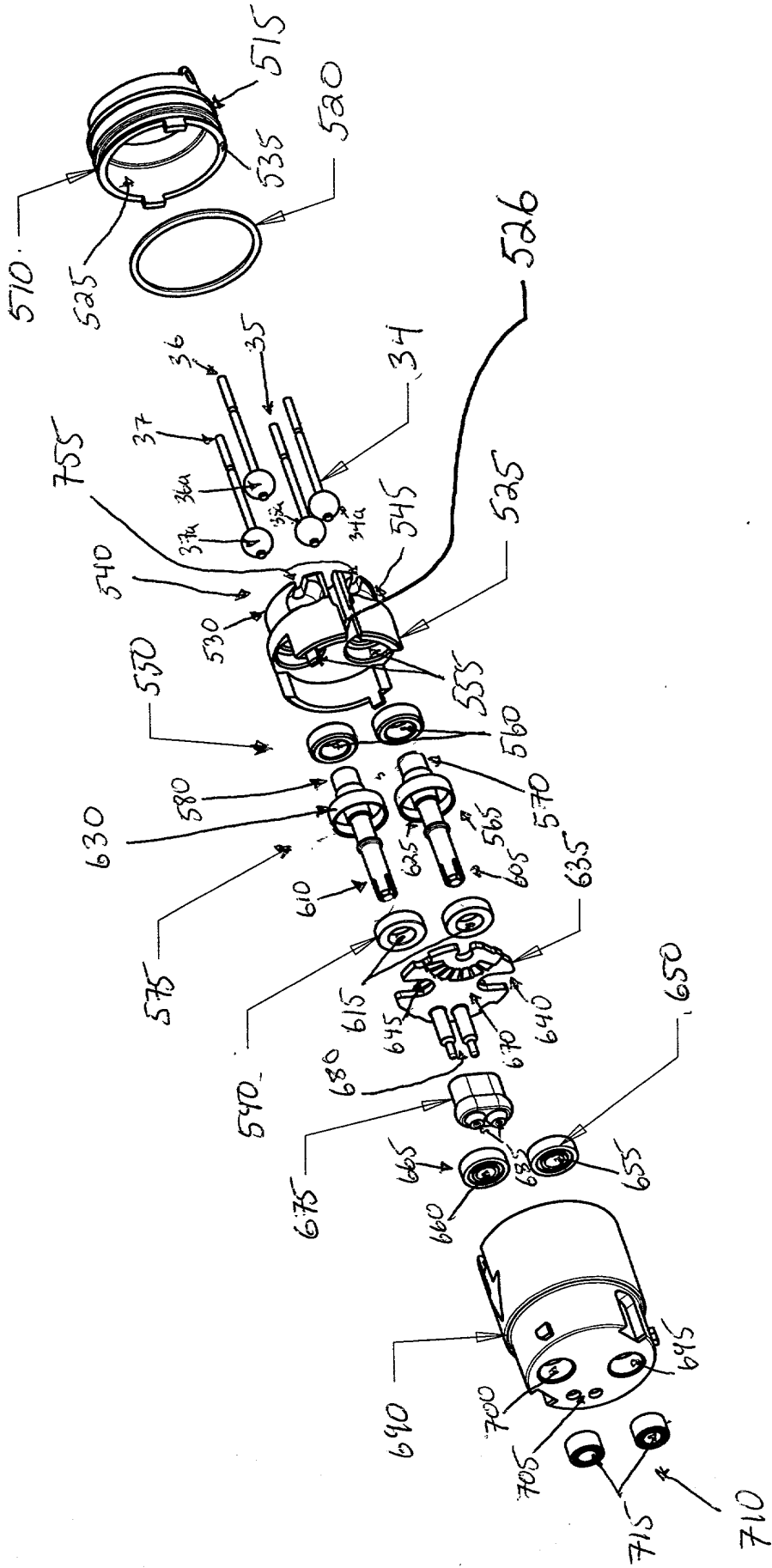
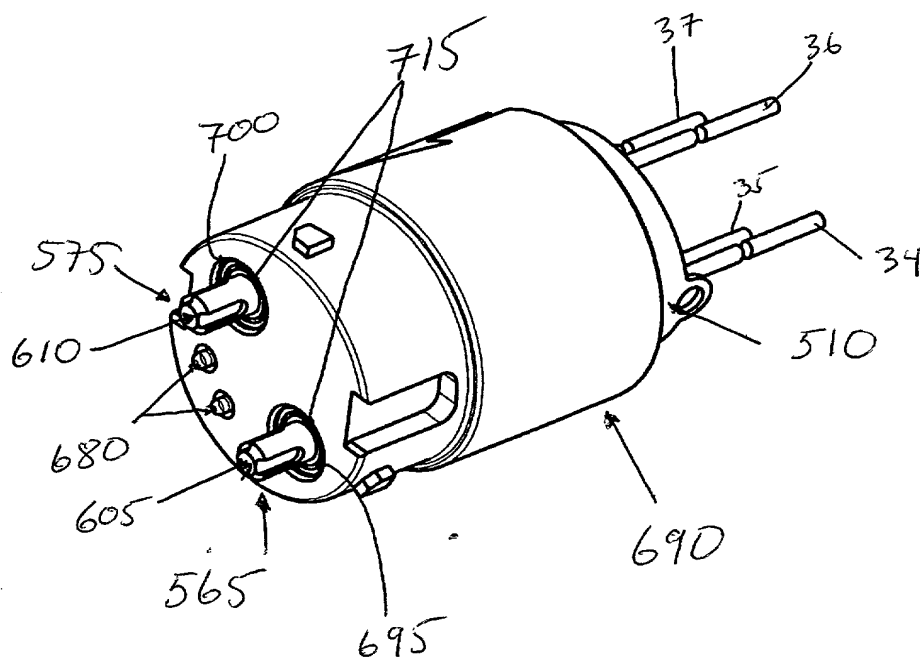


Figure 24b



1009934 01 00000001

FIGURE 25

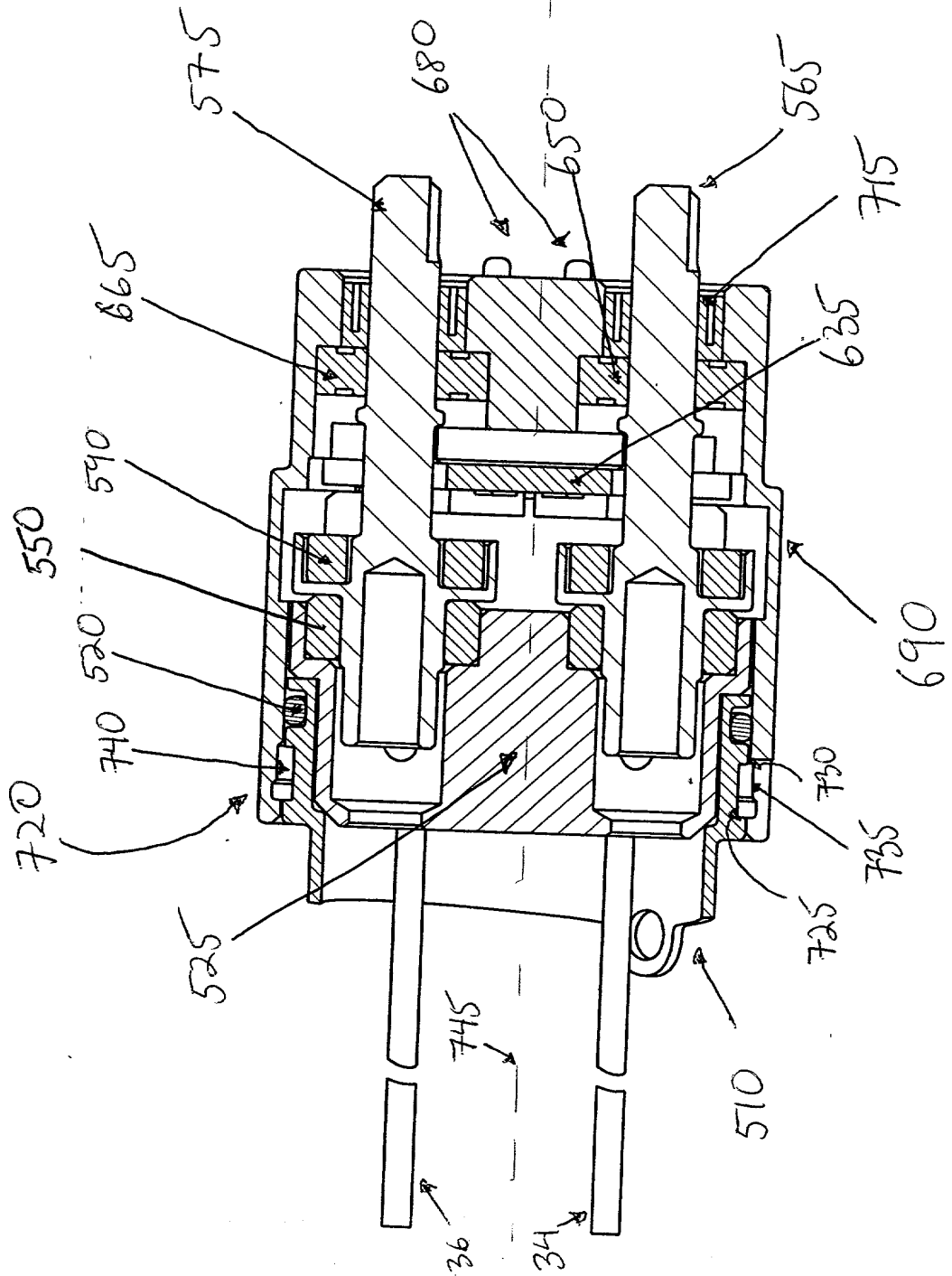


Figure 26a

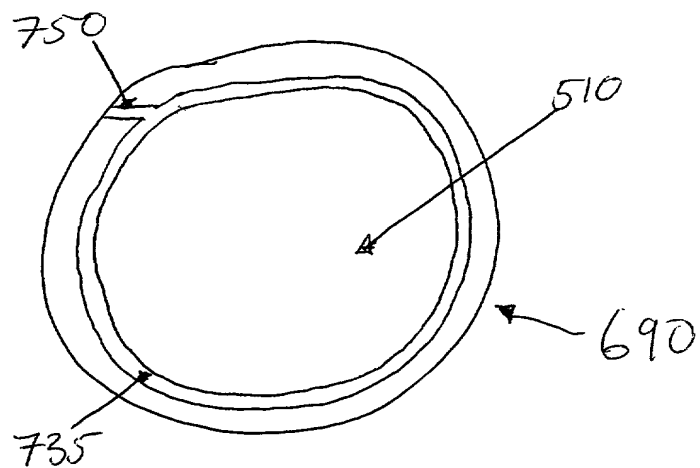
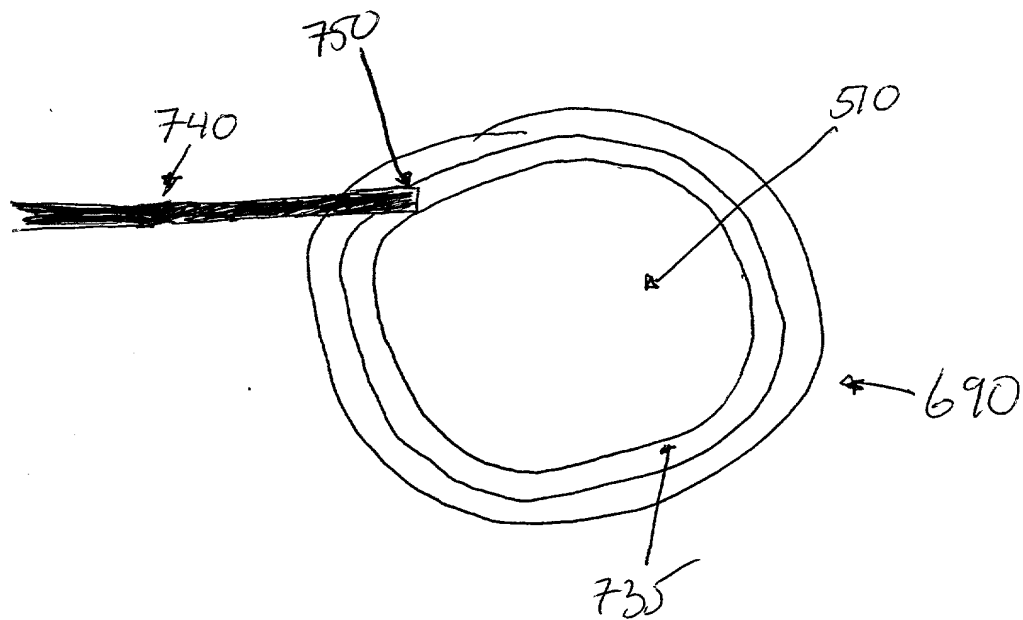


Figure 26b



Downloaded from ascelibrary.org by Seattle University on 06/01/15

Figure 26c

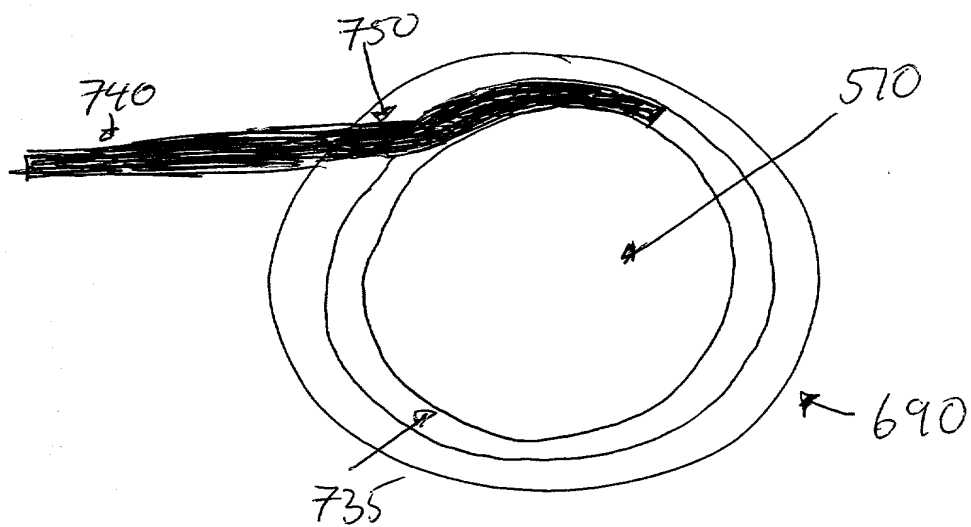


Figure 26d

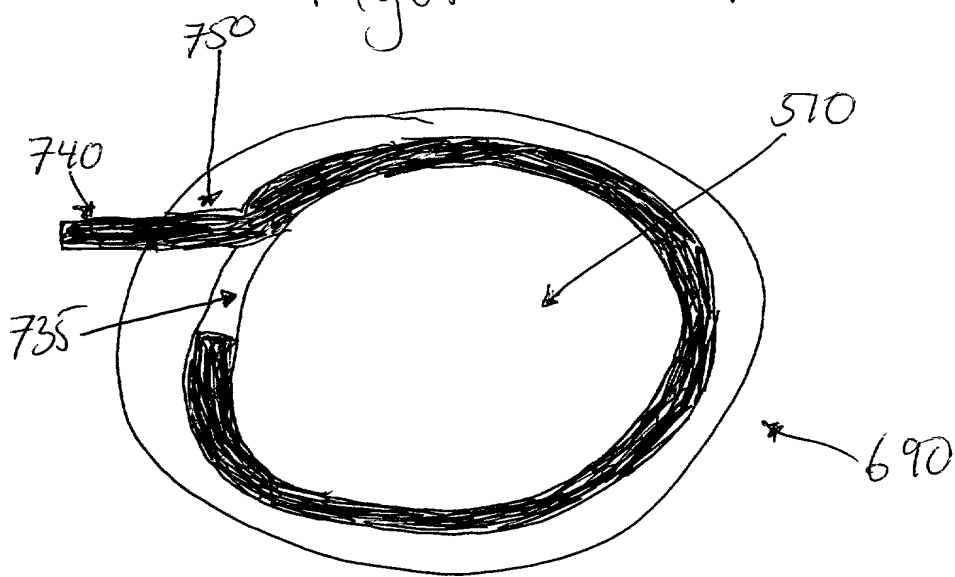


Figure 27

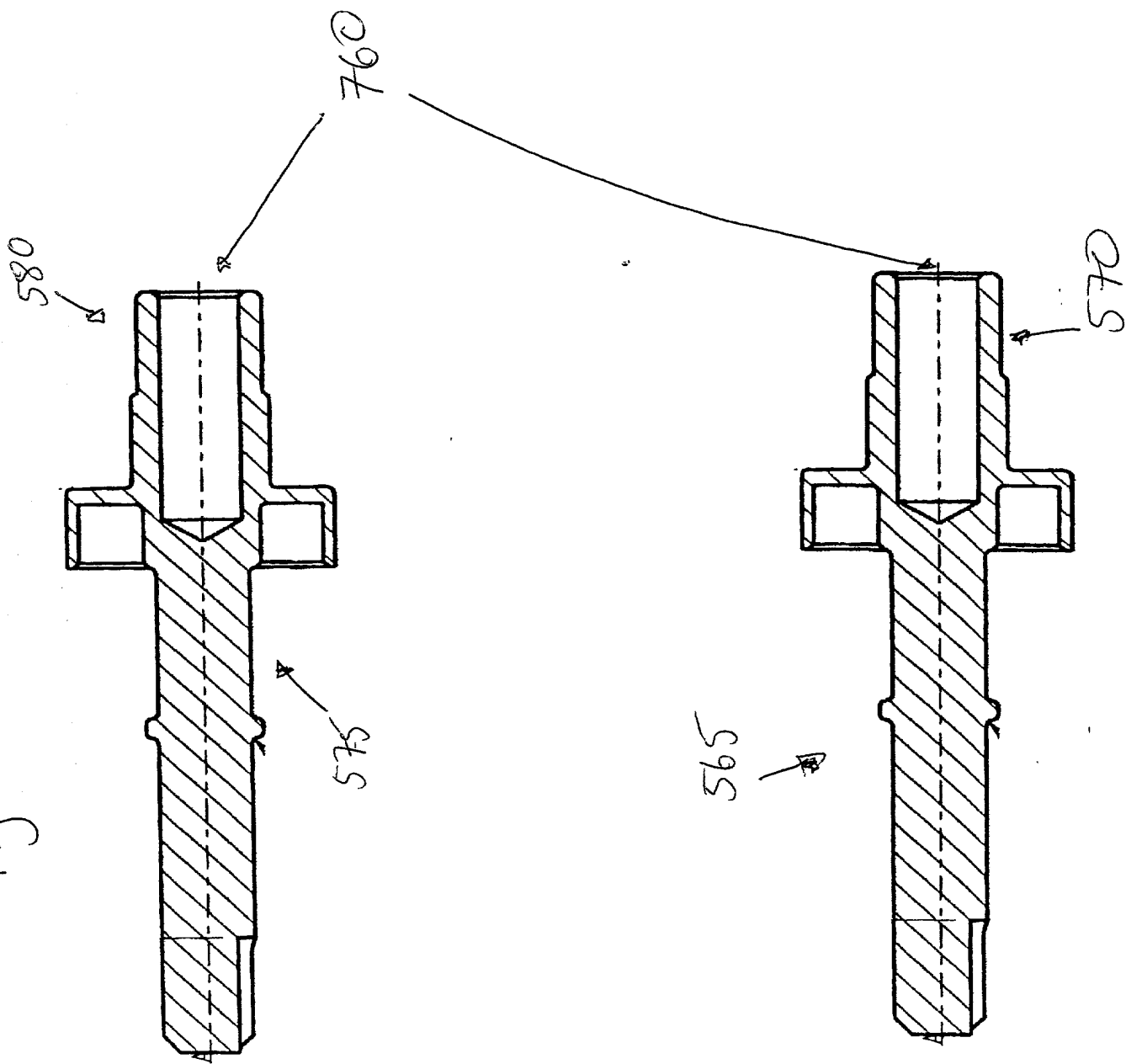


Figure 28a

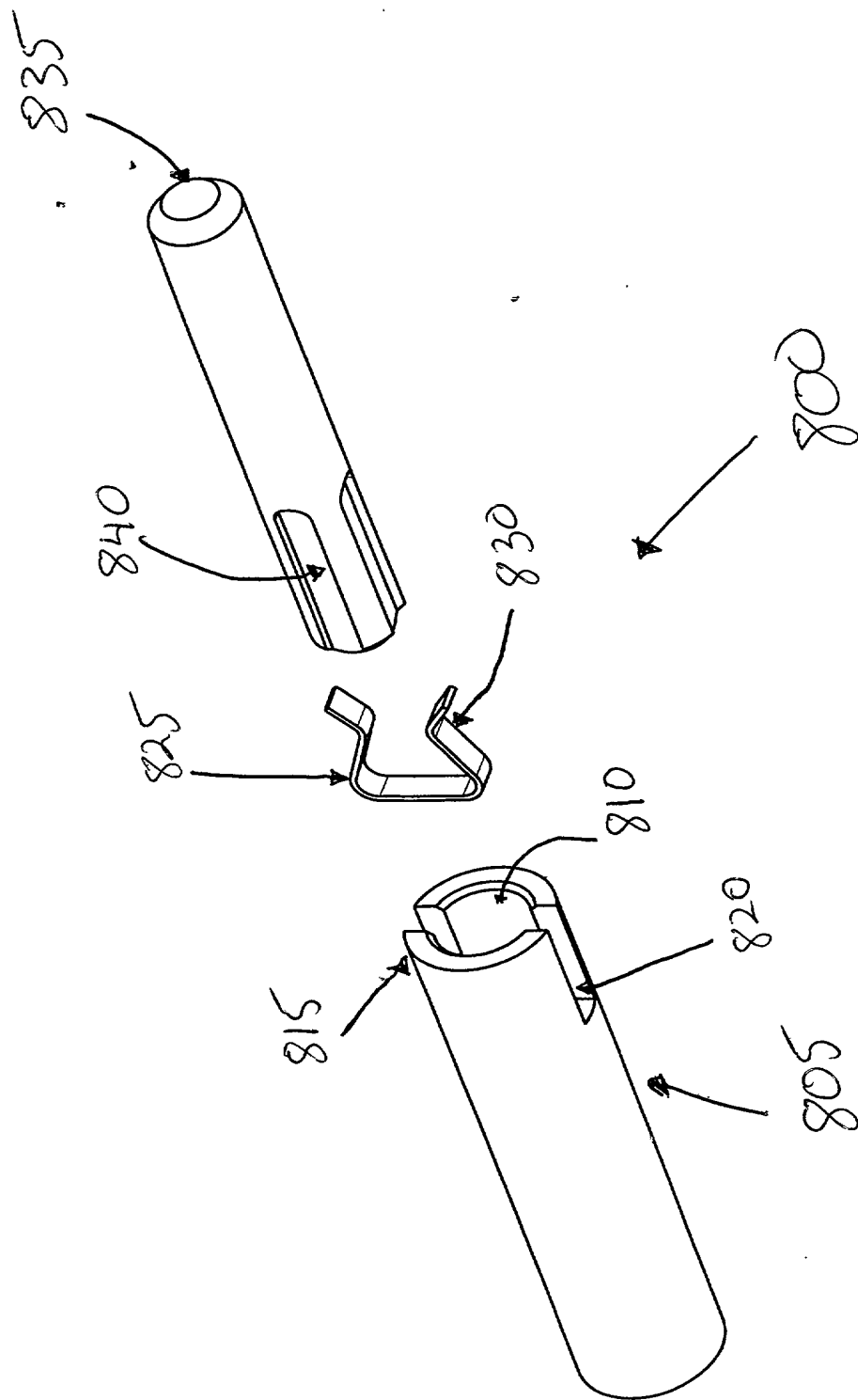
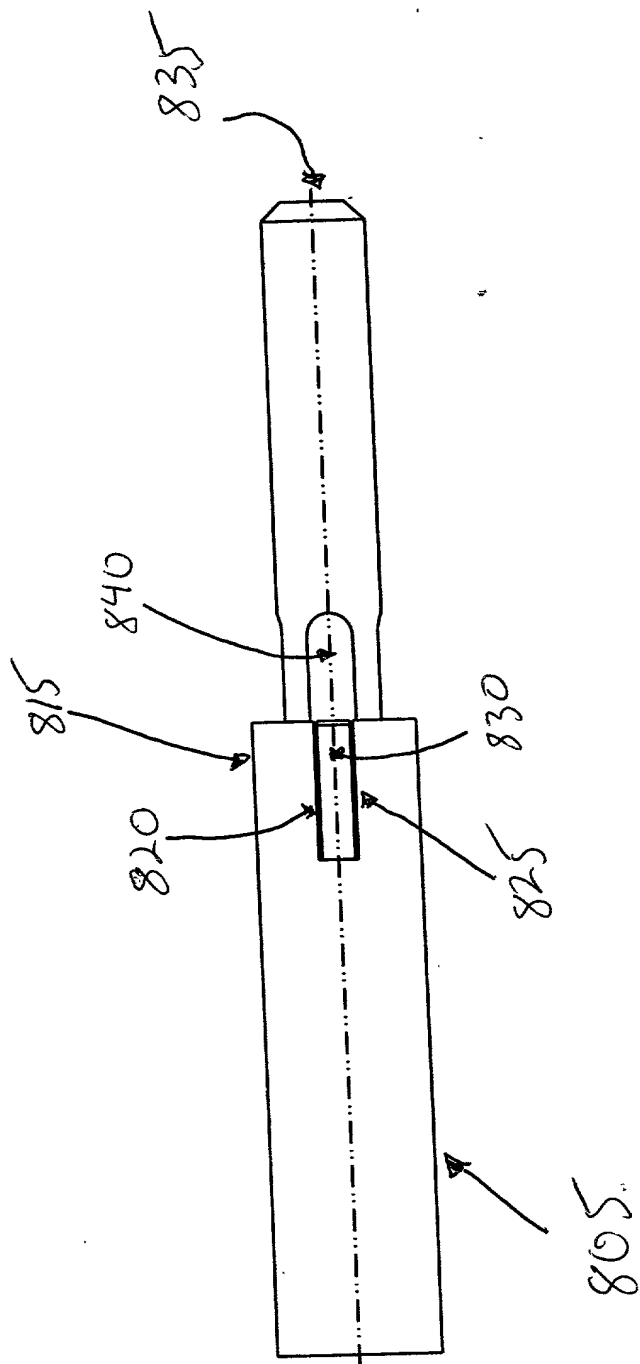


Figure 28b



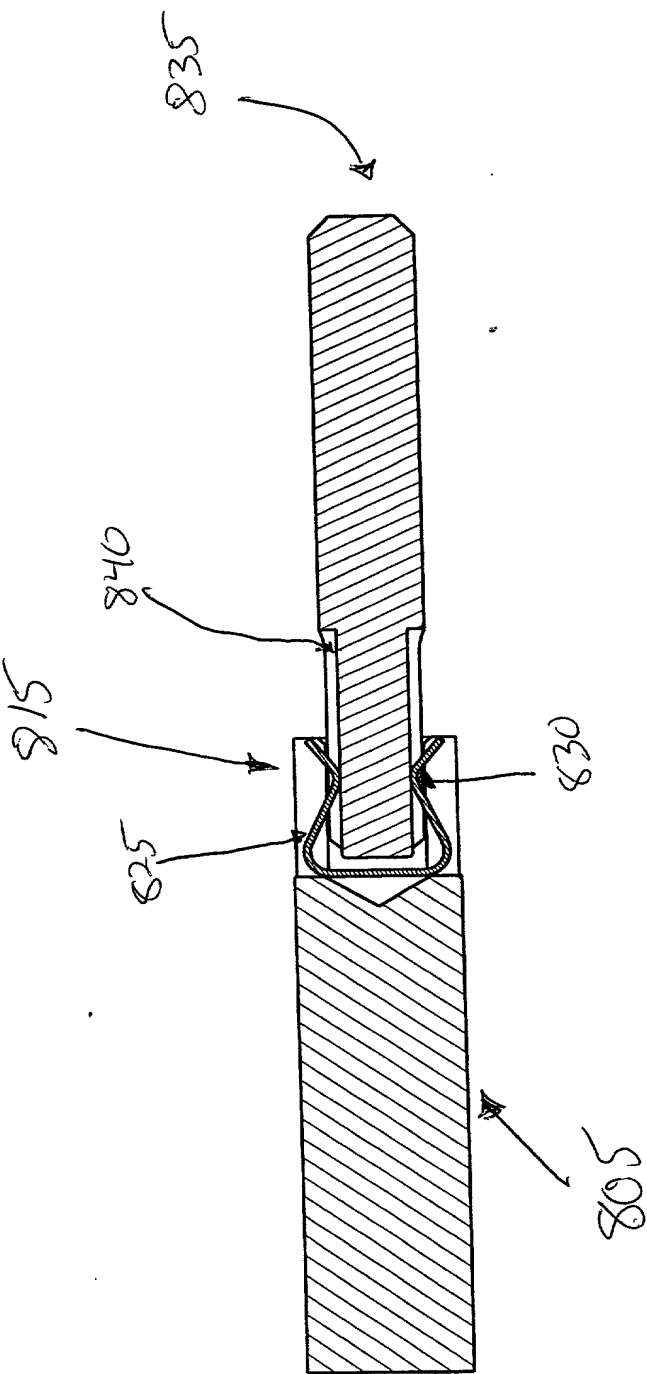
[illegible]

Figure 29

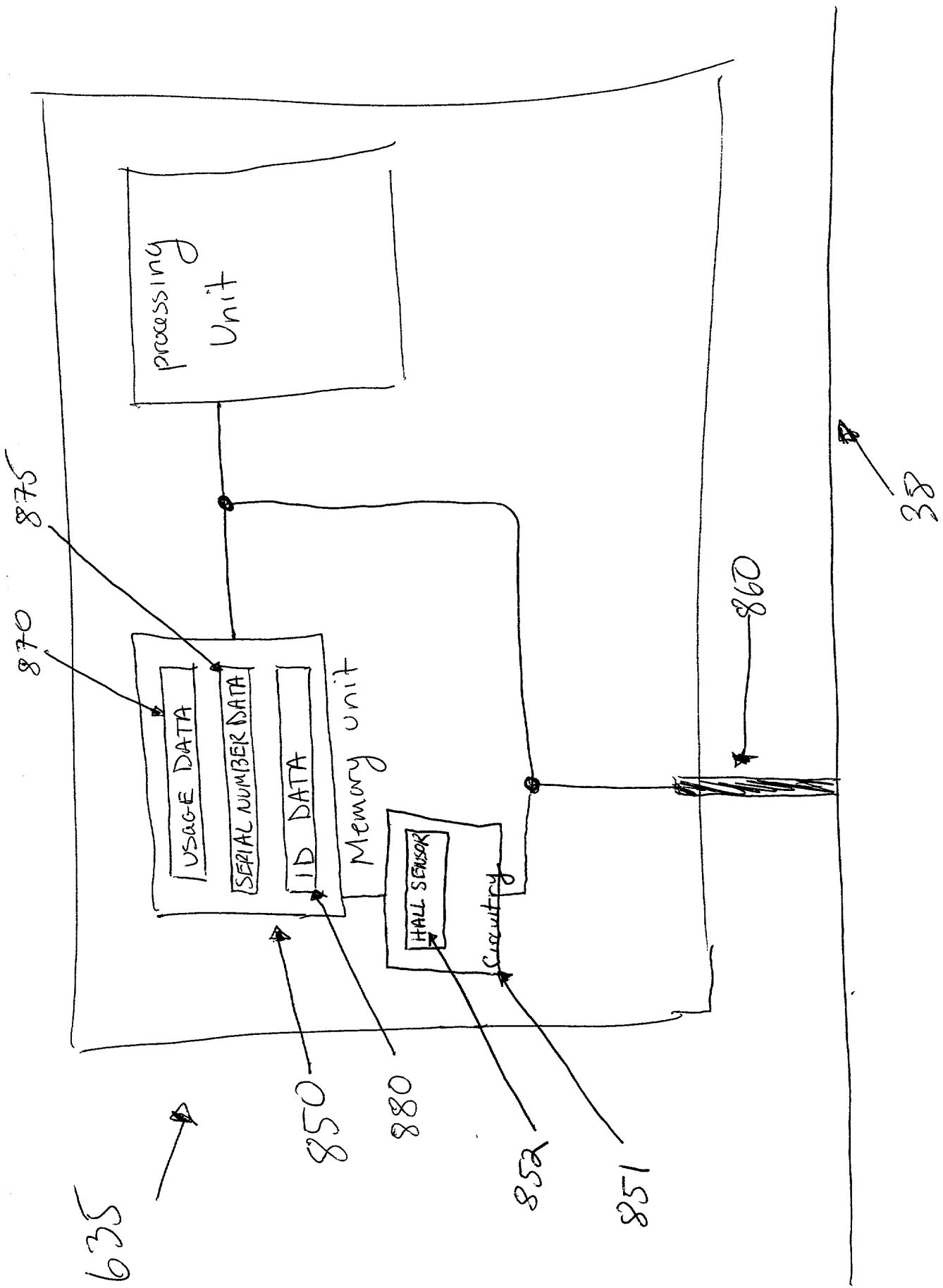


Figure 30a 565001

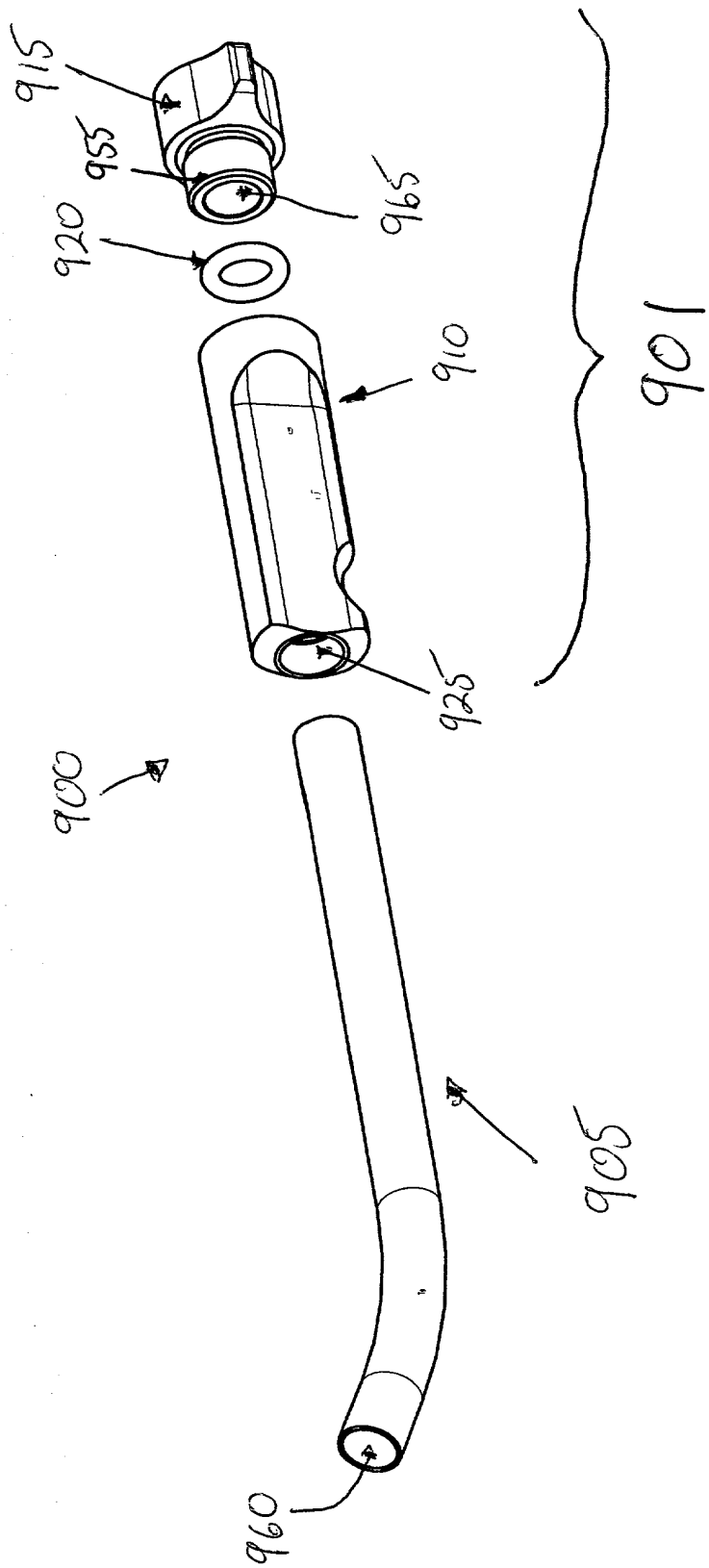


FIG. 3D
FIGURE 3Db

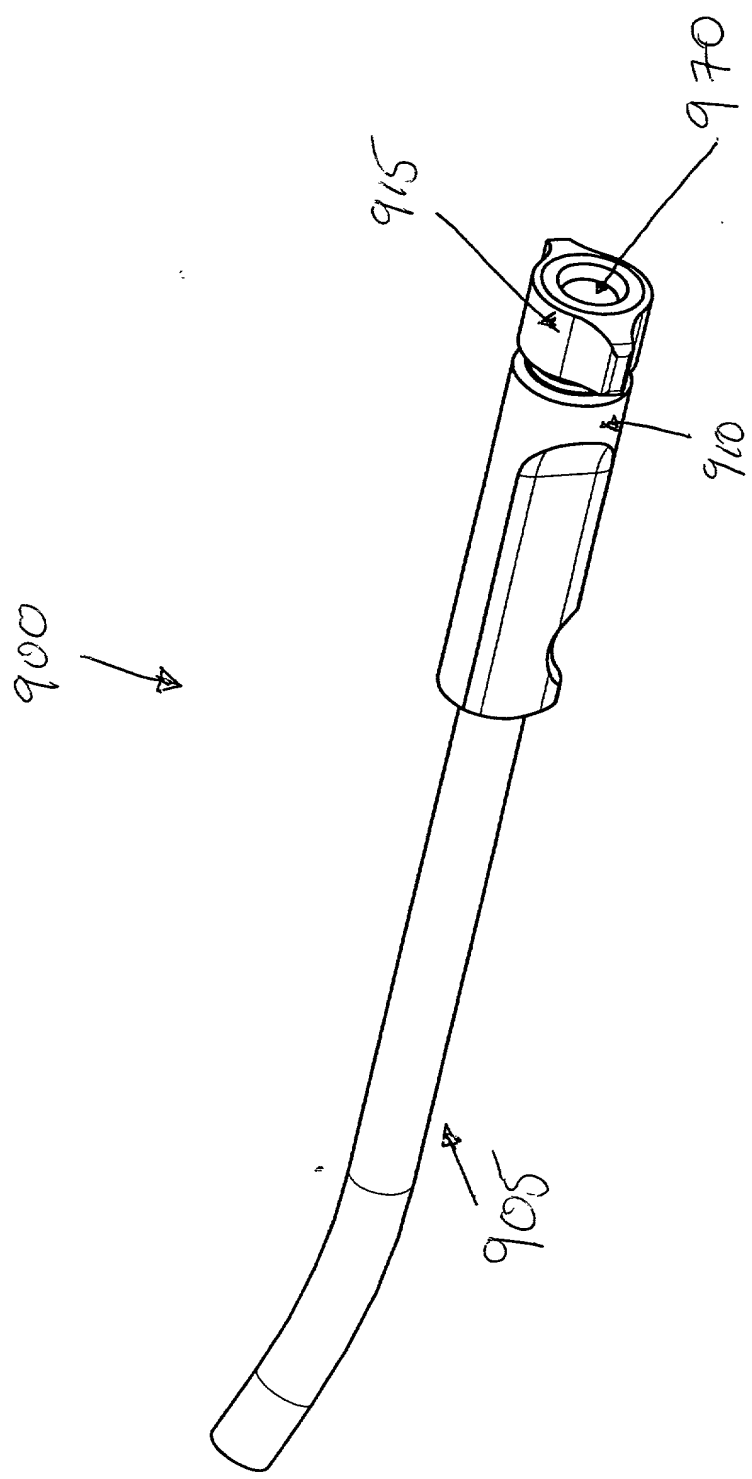


Figure 300

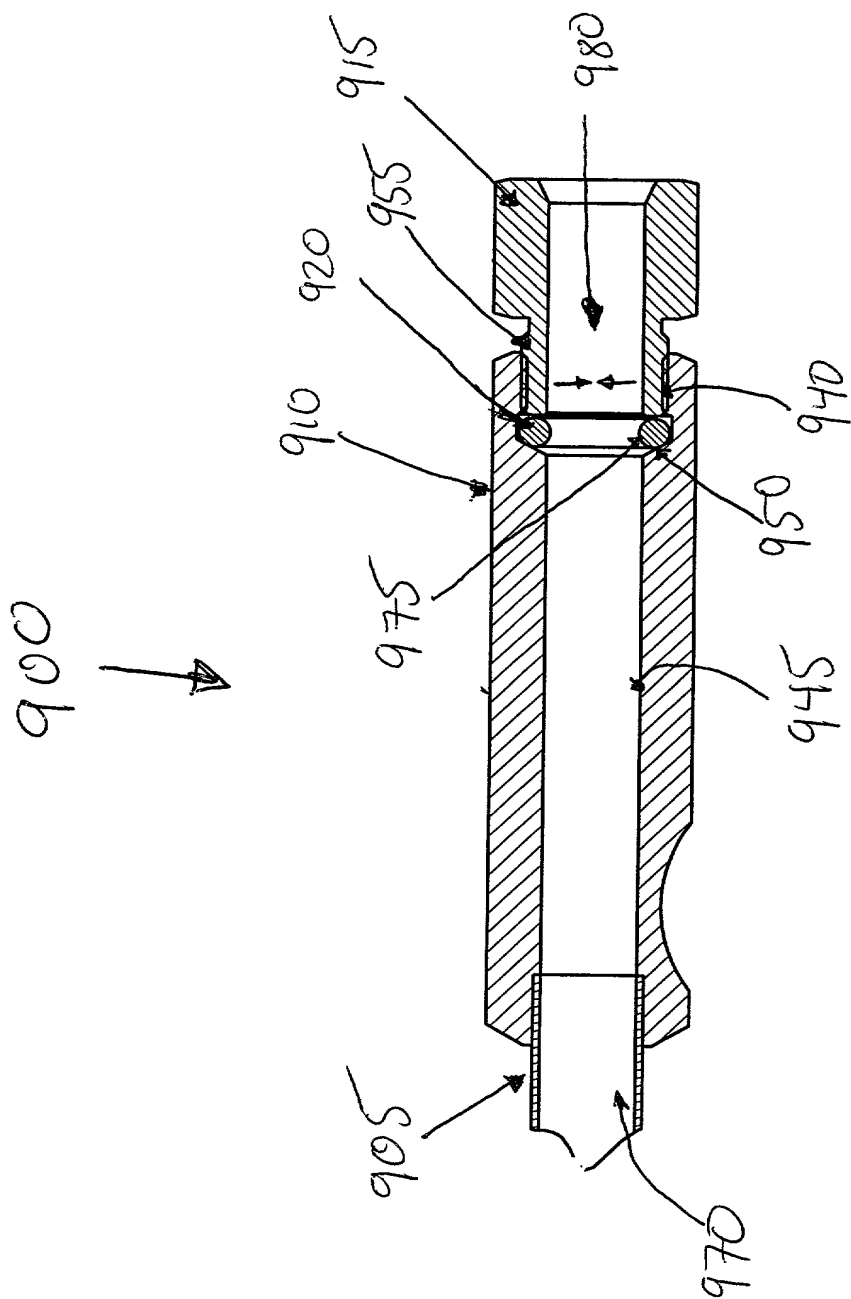


Figure 31

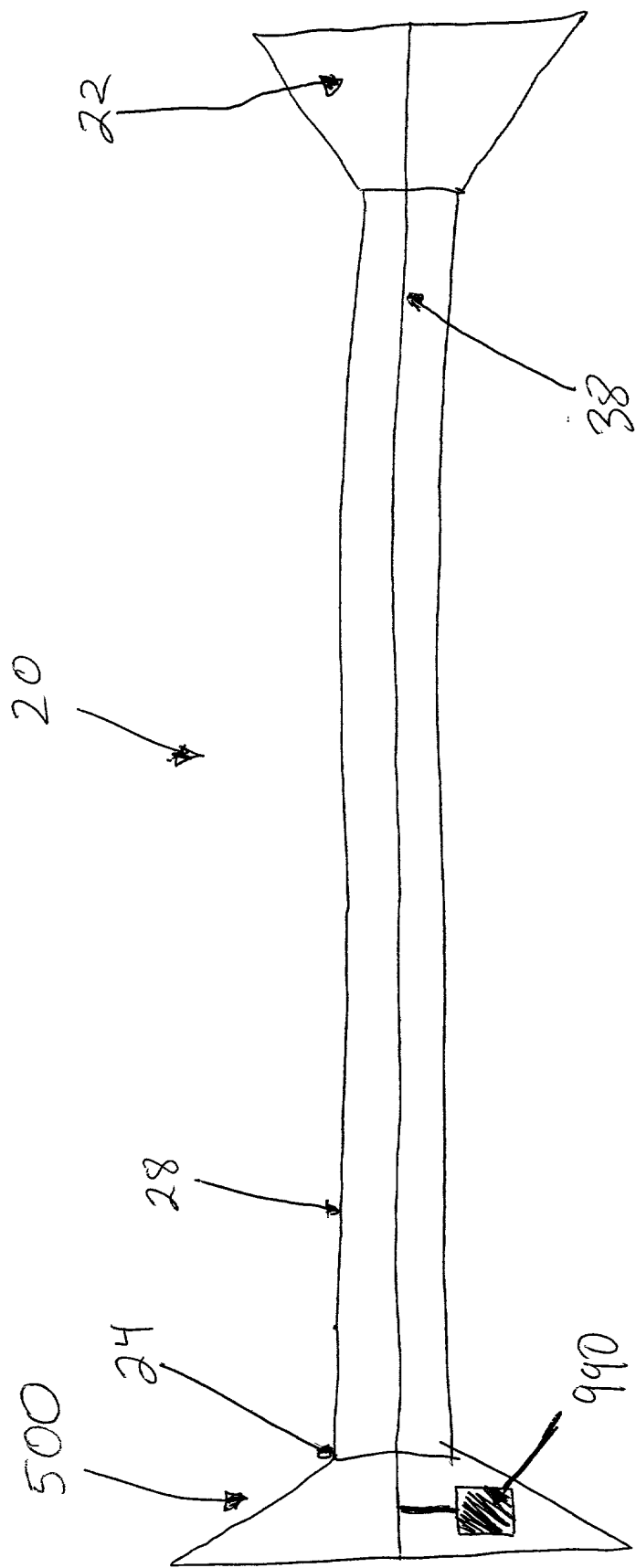


Figure 32

